

**LAIXIANG SUN, Professor**  
*Curriculum Vitae* (October 2024)

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**Present Positions**

1. Professor of Geographic Economics, Department of Geographical Sciences, University of Maryland, USA.
2. Professorial Research Associate, School of Finance & Management, SOAS University of London, UK.

**Major Honors**

- Fellow (Academician) of the Academy of Social Sciences, the UK, since February 2010.
- Short-listed (top-five) candidate for the 2019 Newton Prize, the UK.
- Awarded the title of “Outstanding Overseas Chinese Scholar” by China Academy of Sciences in June 2005.
- 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**

- Associate Editor-in-chief, *Advances in Climate Change Research* (2022 IF: 7.4), July 2022-present.
- Associate Editor, *Cleaner Production Letters*, June 2020-Present.
- Co-Editor, *Journal of Chinese Economic and Business Studies*, July 2008-Dec 2013.
- Editorial Board Member:
  - Management Decision* (2022 IF: 5.589), July 2012-Present.
  - Energy, Ecology and Environment* (E3; 2023 IF: 4.4), Nature-Springer, 2015-Present.
  - Cell Reports Sustainability*, May 2023-present.
  - Journal of Chinese Economic and Business Studies*, July 2008-Present.
  - Journal of Resources and Ecology*, Jan. 2010-Present.
  - China Quarterly* (2021 IF 2.231), Feb. 2004-Jan. 2014, member of the Executive Committee Jan. 2005-Jan. 2014.
  - Journal of Comparative Economics* (top journal in Comparative Economics; 2022 IF: 2.7), 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).
- Expert Advisor, Shenzhen Institute of Sustainable Development, since January 2019.
- Executive Chairman of the Academic Committee, Shanghai Climate Change Research Centre,

Shanghai Meteorological Bureau, Shanghai, China, 2013-2020.

- Research Associate, China Growth Centre at St Edmund Hall, University of Oxford, 2010-2012.
- Referee services: National Science Foundation USA, US Department of Agriculture; Royal Society, Economic & Social Research Council (ESRC), and Natural Environment Research Council (NERC) of the UK, British Academy; Netherlands Foundation for the Advancement of Tropical Research (WOTRO-NWO); Swiss National Science Foundation; National Natural Science Foundation of China (NSFC); 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; *Agricultural Systems*; *American Sociological Review*; *American Journal of Public Health*; *Applied Economics*; *Applied Energy*; *Applied Financial Economics*; *Applied Geography*; *Advances in Climate Change Research*; *Biomass and Bioenergy*; *Cambridge Journal of Economics*; *Cell Reports Sustainability*; *China: An International Journal*; *China Economic Review*; *China Journal*; *China Quarterly*; *Cleaner Production Letters*; *Climate Policy*; *Cities*; *Communications Earth & Environment*; *Computers and Electronics in Agriculture*; *Development and Change*; *Ecological Economics*; *Ecological Modelling*; *Economica*; *Economic Systems*; *Economic Systems Research*; *Emerging Markets Finance and Trade*; *Energy*; *Energy Economics*; *Energy Policy*; *Environmental Management*; *Environmental Science and Technology*; *Environment and Planning A*; *Environmental Sociology*; *European Journal of Development Research*; *Food Policy*; *Food Security*; *Frontiers of Earth Science*; *Geophysical Research Letters*; *Global Change Biology*; *Global Environmental Change*; *Habitat International*; *Human and Ecological Risk Assessment: An International Journal*; *International Journal of Biometeorology*; *International Journal of Sustainable Transportation*; *Journal of Applied Meteorology and Climatology*; *Journal of Business Research*; *Journal of Chinese Economic and Business Studies*; *Journal of Cleaner Production*; *Journal of Comparative Economics*; *Journal of Comparative Law*; *Journal of Current Chinese Affairs*; *Journal of Economic Behavior and Organization*; *Journal of Economics*; *Journal of Industrial Ecology*; *Journal of Environmental Planning and Management*; *Journal of International Business Studies*; *Journal of Peking University*; *Journal of Resources and Ecology*; *Journal of Rural Studies*; *Land Use Policy*; *Leadership*; *Management Decision*; *Nature*, *Nature Climate Change*; *Nature Communications*, *Nature Energy*, *Nature Food*; *Natural Resources Forum*; *Ocean & Coastal Management*; *One Earth*; *Papers in Regional Science*; *Plos ONE*; *PNAS*; *PNAS Nexus*; *Population and Environment*; *Problems and Perspectives in Management*; *Regional Study*; *Renewable & Sustainable Energy Reviews*; *Resources, Conservation & Recycling*; *Risk Analysis*; *Science of the Total Environment*; *Scientific Data*; *Social Forces*; *Spatial Economic Analysis*; *Structural Change and Economic Dynamics*; *Sustainable Development*; *Trends in Ecology & Evolution (Cell Press)*;

*Water; Water Research; World Development.*

- 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

- Senior (Visiting) Economist (Aug 2001-March 2020), Economist (Apr. 1997-July 2001), International Institute for Applied System Analysis (IIASA), Laxenburg, Austria.
- Chair Professor (Aug 2003-Dec 2013), Head of Department (2004-2005; 2008-2012), Lecture (Aug 2001-July 2003), Department of Financial & Management Studies (DeFiMS), SOAS University of London, UK.
- Project Director, United Nations University, World Institute for Development Economics Research (UNU/WIDER), Helsinki, Finland, Jan. 2000-Dec. 2002.
- Senior Research Fellow at Research Center for Social Development of Contemporary China, Peking University, Beijing, China, Feb. 1989-Oct. 1991.
- Lecturer (Aug. 1985-Oct. 1991), Associate Chair (May 1986-Oct 1991), Department of Economic Management (Guanghua School of Management, since 1995), Peking University, Beijing, China.

## Main Publications and Project Reports

<sup>1</sup>Primary, lead or co-lead contributor, <sup>2</sup>Principal contributor and corresponding author, <sup>3</sup>Principal contributor, <sup>4</sup>Contributor, \*Author who was a graduate student at time article was written.

### Articles published in International Refereed Journals

1. Tian, P., H. Zhong, X. Chen\*, K. Feng, L. Sun<sup>2</sup>, N. Zhang, X. Shao, Y. Liu, K. Hubacek. 2024. "Keeping the global consumption within planetary boundaries." *Nature* (2022 IF: 50.5, 5 yr IF: 54.4), in press.
2. Zhong, H., Y. Li\*, J. Ding\*, B. Bruckner\*, K. Feng, L. Sun<sup>2</sup>, C. Prell, Y. Shan, K. Hubacek. 2024. "Global spillover effects of the European Green Deal and plausible mitigation options." *Nature Sustainability* (2022 IF: 25.7, 5 yr IF: 29.9). Published online 20 September 2024. <https://doi.org/10.1038/s41893-024-01428-1>.
3. Xu, H.\*, E. Ragno, S. N. Jonkman, J. Wang, J. D. Bricker, Z. Tian, L. Sun<sup>3</sup>. 2024. "Combining statistical and hydrodynamic models to assess compound flood hazards from

- rainfall and storm surge: a case study of Shanghai.” *Hydrology and Earth System Sciences* (2022 IF: 6.3). Vol. 28, issue 16, pp. 3919–3930. <https://doi.org/10.5194/hess-28-3919-2024>.
4. Meng, L.\* , Z. Tian, D. Fan, F. H. M. van de VEN, L. Sun<sup>3</sup>, Q. Ye, S. Sun, J. Liu, L. Nougues, D. Rooze. 2024. “A multi-objective optimization approach for harnessing rainwater in changing climate.” *Advances in Climate Change Research* (2021 IF: 4.746). Available online 22 August 2024. <https://doi.org/10.1016/j.accre.2024.08.006>.
  5. Sandler, Austin\* and Laixiang Sun. 2024. “The Socio-Environmental Determinants of Childhood Malnutrition: A Spatial and Hierarchical Analysis.” *Nutrients* (2022 IF: 5.719) Vol.16, article no. 2014. <https://doi.org/10.3390/nu16132014>.
  6. Peng, X.\* , L. Sun<sup>2</sup>, K. Feng, H. Zhong, J. Liang, C. Zhang, D. Zhao, H. Chen, R. Long, Z. Xing, K. Hubacek. 2024. “Extent of global decarbonization of the power sector through energy policies and governance capacity.” *Communications Earth & Environment* (2022 IF: 8.1, 5 yr IF: 8.4), Vol. 5, article no. 321. <https://doi.org/10.1038/s43247-024-01494-5>.
  7. Tian, Peipei, Kuishuang Feng, Laixiang Sun<sup>2</sup>, Klaus Hubacek, Daniele Malerba, Honglin Zhong, Heran Zheng, Dan Li, Ning Zhang, Jiashuo Li. 2024. “Higher total energy costs strain elderly, especially low-income, across 31 developed countries.” *Proceedings of the National Academy of Sciences of the USA (PNAS)* (2022 IF: 11.1, 5-yr IF: 12.0). 121(12), e2306771121. <https://doi.org/10.1073/pnas.2306771121>.
  8. Wang, Peng, Chenyang Wang, Jiashuo Li, Klaus Hubacek, Laixiang Sun<sup>3</sup>, Fan Yang, Kuishuang Feng, Wei-Qiang Chen. 2024. “Incorporating platinum circular economy into China’s hydrogen pathways towards carbon neutrality.” *Proceedings of the National Academy of Sciences of the USA (PNAS) Nexus*. Vol. 3, Issue 5, article no. pgae172. <https://doi.org/10.1093/pnasnexus/pgae172>.
  9. Wang, S., X. Chen, R. Xie, K. Liu, J. Wang, X. Liu, K. Hubacek, C. Wu, K. Feng, Y. Yan, Z. Liu, L. Sun<sup>3</sup>, C. Fang. 2024. Demand-side Insights for Steering Human Appropriation of Net Primary Productivity within Planetary Boundaries. *One Earth* (2022 IF: 16.2). Vol. 7, 1–13. <https://doi.org/10.1016/j.oneear.2024.02.010>.
  10. Zhao, D., J. Liu, L. Sun<sup>3</sup>, K. Hubacek, S. Pfister, K. Feng, H. Zheng, X. Peng, D. Wang, H. Yang, L. Shen, F. Lun, X. Zhao, B. Chen, M. Keskinen, S. Zhang, J. Cai, O. Varis. 2024. “Water consumption and biodiversity: Responses to global emergency events”. *Science Bulletin* (2022 IF: 18.9). Published online 25 March 2024. <https://doi.org/10.1016/j.scib.2024.03.049>.
  11. Wang, Yuhao\*, Kuishuang Feng, Laixiang Sun<sup>3</sup>, Yiqun Xie, Xiao-Peng Song. 2024. “Satellite-based soybean yield prediction in Argentina: a comparison between panel regression and deep learning methods.” *Computers and Electronics in Agriculture* (2022 IF = 8.3). Vol. 221, article no. 108978. <https://doi.org/10.1016/j.compag.2024.108978>.
  12. Funes, Jose, Jeffery Sauer\*, Laixiang Sun<sup>3</sup> 2024. “Transit-Oriented Development and Effective Supply on the Tenant-occupied Multifamily Housing Market in Washington D.C.” *Spatial Economic Analysis* (2022 IF = 2.3). Published online: 14 May 2024. <https://doi.org/10.1080/17421772.2024.2346663>.
  13. Funes, Jose\*, Laixiang Sun<sup>3</sup>, Todd Benson, Fernando Sedano, Giovanni Baiocchi, Ekin Birol. 2024. Cultivating prosperity in Rwanda: The impact of high-yield biofortified bean seeds on farmers’ yield and income. *Food Security* (2022 IF = 6.7). Vol. 16, pp. 623–635. <https://doi.org/10.1007/s12571-024-01449-w>.
  14. Liu, Baobao\*, Kuishuang Feng, Laixiang Sun<sup>3</sup>, Giovanni Baiocchi. 2024. “Does interstate trade of agricultural products in the U.S. alleviate land and water stress?” *Journal of*

- Environmental Management* (2022 IF = 8.7). Vol. 354, article no. 120427. <https://doi.org/10.1016/j.jenvman.2024.120427>.
15. Buonomo, Erasmo, Nicholas Savage, Guangtao Dong, Bernd Becker, Richard G. Jones, Zhan Tian, [Laixiang Sun](#)<sup>4</sup>. 2024. “Tropical cyclone changes in convection-permitting regional climate projections: a study over the Shanghai region.” *Journal of Geophysical Research: Atmospheres* (2022 IF: 4.4). 129(5): e2023JD038508. <https://doi.org/10.1029/2023JD038508>.
  16. Sun, Qi\*, Patrick Olschewski\*, Jianhui Wei, Zhan Tian, [Laixiang Sun](#)<sup>4</sup>, Harald Kunstmann, Patrick Laux. 2024. “Key ingredients in regional climate modeling for improving the representation of typhoon tracks and intensities.” *Hydrology and Earth System Sciences* (2022 IF: 6.3). 28(4): 761–780. <https://doi.org/10.5194/hess-28-761-2024>.
  17. Liu, Jingru\*, Zhan Tian, Steven Dobbie, Andrew N. Ross, [Laixiang Sun](#)<sup>3</sup>, Qinghua Ye. 2023. “Characterization and process understanding of tropical cyclone-induced floods derived from observations in Shenzhen, China.” *Environmental Research Letters* (2022 IF: 6.947). Vol. 18, article no. 124040. <https://doi.org/10.1088/1748-9326/ad0bd7>.
  18. Tanaka, Tetsuji, [Laixiang Sun](#)<sup>2</sup>, Inbal Becker-Reshef, Xiao-Peng Song, Estefania Puricelli. 2023. “Satellite forecasting of crop harvest can trigger a cross-hemispheric production response and improve global food security.” *Communications Earth & Environment* (2022 IF: 7.9), Vol. 4, article no. 334. <https://doi.org/10.1038/s43247-023-00992-2>.
  19. Tian, Peipei, Kuishuang Feng, Heran Zheng, Klaus Hubacek, Jiashuo Li, Honglin Zhong, Xiangjie Chen, [Laixiang Sun](#)<sup>2</sup>. 2023. “Implementation of carbon pricing in an aging world calls for targeted protection schemes.” *Proceedings of the National Academy of Sciences of the USA (PNAS) Nexus*. Vol. 2, Issue 7, article no. pgad209, <https://doi.org/10.1093/pnasnexus/pgad209>.
  20. Xin, Yu\*, [Laixiang Sun](#)<sup>2</sup>, Matthew Hansen. 2023. “Land-cover and land-use change trajectory hopping facilitates estate-crop expansion into protected forests in Indonesia.” *Conservation Letters* (2022 IF: 8.5). Vol. 16, Issue 4, article no. e12957. <https://doi.org/10.1111/conl.12957>.
  21. Wang, Hetong\*, Kuishuang Feng, Peng Wang, Yuyao Yang, [Laixiang Sun](#)<sup>2</sup>, Weiqiang Chen, Yiyi Zhang, Jiashuo Li. 2023. China’s electric vehicle and climate ambitions jeopardized by surging critical material prices. *Nature Communications* (2021 IF: 17.694). Vol. 14, Article number. 1246. <https://doi.org/10.1038/s41467-023-36957-4>.
  22. Liang, Zhuoran, [Laixiang Sun](#)<sup>1</sup>, Zhan Tian, Günther Fischer, Huimin Yan. 2023. Increase in grain production potential of China under climate change. *Proceedings of the National Academy of Sciences of the USA (PNAS) Nexus*. Vol. 2, Issue 3, pp. 1-10. <https://doi.org/10.1093/pnasnexus/pgad057>.
  23. Hu, Guangxiao\*, Kuishuang Feng, [Laixiang Sun](#)<sup>2</sup>. 2023. “A multiscale analysis of the relationship between toxic chemical hazard risks and racial/ethnic, socioeconomic groups in Texas, USA”. *Environmental Science & Technology* (2021 IF: 11.357). Vol. 57, Issue 5, pp. 2019–2030. <https://doi.org/10.1021/acs.est.2c04302>.
  24. Tian, Zhan, David Ramsbottom, [Laixiang Sun](#)<sup>2</sup>, Yijing Huang\*, Huan Zou, Junguo Liu. 2023. “Dynamic adaptive engineering pathways for mitigating flood risks in Shanghai with regret theory.” *Nature Water*, Vol.1, issue 2, pp. 198–208. <https://doi.org/10.1038/s44221-022-00017-w>.
  25. Hu, Guangxiao\*, Kuishuang Feng, [Laixiang Sun](#)<sup>3</sup>, Giovanni Baiocchi. 2023. “Tracing toxic chemical releases embodied in U.S. interstate trade and their unequal distribution.” *Environment International* (2021 IF: 13.352), Vol. 171, article no. 107681.

- <https://doi.org/10.1016/j.envint.2022.107681>.
26. Olschewski, Patrick\*, Patrick Laux, Jianhui Wei, Brian Böker, Zhan Tian, [Laixiang Sun](#)<sup>4</sup>, and Harald Kunstmann. 2023. “An ensemble-based assessment of bias adjustment performance, changes in hydrometeorological predictors and compound extreme events in EAS-CORDEX.” *Weather and Climate Extremes* (2021 IF: 7.761), Vol 39, article no. 100531. <https://doi.org/10.1016/j.wace.2022.100531>.
  27. Zhang, P.\*, X. Zhao, [L. Sun](#)<sup>3</sup>, J. Zuo, W. Wei, X. Liu, X. Peng, Y. Shan, S. Li, L. Ge, J. Li, K. Feng. 2023. “What can we learn from the 2008 financial crisis for global power decarbonization after COVID-19?” *Fundamental Research* (2022 IF: 6.2), Available online 14 March 2023. <https://doi.org/10.1016/j.fmre.2023.02.017>.
  28. Xin, Yu\*, [Laixiang Sun](#)<sup>2</sup>, Matthew Hansen. 2022. “Oil palm reconciliation in Indonesia: balancing rising demand and environmental conservation towards 2050.” *Journal of Cleaner Production* (2021 IF: 11.072), Vol. 380, article no. 135087. <https://doi.org/10.1016/j.jclepro.2022.135087>.
  29. Song, Kaihui\*, Giovanni Baiocchi, Kuishuang Feng, Klaus Hubacek, [Laixiang Sun](#)<sup>3</sup>, Daoping Wang, Dabo Guan. 2022. “Can U.S. multi-state climate mitigation agreements work? A perspective from embedded emission flows.” *Global Environmental Change* (2021 IF: 11.16), Vol. 77, article no. 102596. <https://doi.org/10.1016/j.gloenvcha.2022.102596>.
  30. Qi, Xinxian\*, Kuishuang Feng, [Laixiang Sun](#)<sup>2</sup>, Dandan Zhao, Xianjin Huang. 2022. “Rising agricultural water scarcity in China is driven by expansion of irrigated cropland in water scarce regions.” *One Earth* (2021 IF: 14.944), Vol. 5, pp. 1139–1152. <https://doi.org/10.1016/j.oneear.2022.09.008>.
  31. Song, Kaihui\*, Giovanni Baiocchi, Kuishuang Feng, Klaus Hubacek, [Laixiang Sun](#)<sup>3</sup>. 2022. “Unequal household carbon footprints in the peak-and-decline pattern of U.S. greenhouse gas emissions.” *Journal of Cleaner Production* (2021 IF: 11.072), Vol. 368, article no. 132650, pp. 1-15. <https://doi.org/10.1016/j.jclepro.2022.132650>.
  32. Kumar, Ipsita\*, Kuishuang Feng, [Laixiang Sun](#)<sup>3</sup>, Varaprasad Bandaru. 2022. “Adoption of biomass for electricity generation in Thailand: Implications for energy security, employment, environment, and land use change.” *Renewable Energy* (2021 IF: 8.634). Vol. 195, pp. 1454-1467. <https://doi.org/10.1016/j.renene.2022.05.162>.
  33. Cao, Y., S. Liang, [L. Sun](#)<sup>3</sup>, J. Liu, X. Cheng, D. Wang, Y. Chen, M. Yu, K. Feng. 2022. “Trans-Arctic shipping routes expanding faster than the model projections.” *Global Environmental Change* (2021 IF: 11.16). Vol. 73, article no. 102488. <https://doi.org/10.1016/j.gloenvcha.2022.102488>.
  34. Funes, Jose\*, [Laixiang Sun](#)<sup>3</sup>, Todd Benson, Fernando Sedano, Giovanni Baiocchi. 2022. “Social Interaction and Geographic Diffusion of Iron Biofortified Beans in Rwanda”, *Agricultural Economics* (2021 IF: 3.887). Vol. 53, Issue 4, pp. 503-528. <https://doi.org/10.1111/agec.12722>.
  35. Xu, H.\*, Z. Tian, [L. Sun](#)<sup>3</sup>, Q. Ye, E. Ragno, J. Bricker, G. Mao, J. Tan, J. Wang, Q. Ke, S. Wang, R. Toumi. 2022. “Compound flood impact of water level and rainfall during tropical cyclone period in a coastal city: The case of Shanghai.” *Natural Hazards and Earth System Sciences* (2021 IF: 4.345). Vol. 22, issue 7, pp. 2347–2358. <https://doi.org/10.5194/nhess-2022-26>.
  36. Khan Ibraheem M.P.\*, Klaus Hubacek, Kaye L. Brubaker, [Laixiang Sun](#)<sup>4</sup>, Glenn Moglen. 2022. “Stormwater management adaptation pathways under climate change and urbanization.” *Journal of Sustainable Water in the Built Environment* (2021 IF: 2.45). 8(4): 04022009.



DOI: 10.1061/JSWBAY.0000992.

37. Tian, Z., X. Lyu, H. Zou, H. Yang, L. Sun<sup>3</sup>, M. S. Pinya, Q. Chao, A. Feng, B. Smith. 2022. “Advancing index-based climate risk assessment to facilitate adaptation planning: Application in Shanghai and Shenzhen, China.” *Advances in Climate Change Research* (2021 IF: 4.746). Vol. 13, Issue 3, pp. 432-442. <https://doi.org/10.1016/j.accre.2022.02.003>.
38. Zhao, Danyang\*, Kuishuang Feng, Laixiang Sun<sup>3</sup>, Giovanni Baiocchi, Haiting Liu. 2022. “Environmental Implications of Economic Transformation in China’s Pearl River Delta Region: Dynamics at four nested geographical scales over 1987-2017.” *Science of the Total Environment* (2021 IF: 10.753). Vol. 816, article no. 151631. <https://doi.org/10.1016/j.scitotenv.2021.151631>.
39. He, Pan\*, Kuishuang Feng, Giovanni Baiocchi, Laixiang Sun<sup>3</sup>, Klaus Hubacek. 2021. “Shifts towards healthy diets in the US can reduce environmental impacts but would be unaffordable for poorer minorities.” *Nature Food* (2021 IF: 20.43). Vol. 2, pp. 664–672. <https://doi.org/10.1038/s43016-021-00350-5>.
40. Zhao, Dandan, Junguo Liu, Hong Yang, Laixiang Sun<sup>3</sup>, Olli Varis. 2021. Socioeconomic drivers of provincial-level changes in the blue and green water footprints in China. *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 175, article no. 105834. <https://doi.org/10.1016/j.resconrec.2021.105834>.
41. Fan, D., Y. Fan\*, Z. Tian, X. Li, M. Jiang, L. Sun<sup>2</sup>, H. Zhong, K. Wang, X. Wang, L. Jiang. 2021. A vital option for food security and greenhouse gases mitigation: planting elite super rice in double-to single-rice cropping fields in China. *Environmental Research Letters* (2021 IF: 6.947). Vol. 16, article no. 094038. <https://doi.org/10.1088/1748-9326/ac1e3e>.
42. Fan, Dongli, Zhiyu Jiang\*, Zhan Tian, Guangtao Dong, Laixiang Sun<sup>2</sup>. 2021. The effects of climate change on Chinese Medicinal Yam over North China under the high-resolution PRECIS projection. *Earth and Space Science* (2021 IF = 3.68), Vol. 8, Issue 8, article no. e2021EA001804. <https://doi.org/10.1029/2021EA001804>.
43. Ke, Q., J. Yin\*, J. D. Bricker, N. Savage, E. Buonomo, Q. Ye, P. Visser, G. Dong, S. Wang, Z. Tian, L. Sun<sup>4</sup>, R. Toumi, S N. Jonkman. 2021. “An integrated framework of coastal flood modelling under the failures of sea dikes: a case study in Shanghai.” *Natural Hazards* (2021 IF: 3.158; 5-yr IF: 3.685), Vol. 109, pp. 671–703. <https://doi.org/10.1007/s11069-021-04853-z>.
44. Zhao, Dandan\*, Junguo Liu, Laixiang Sun<sup>2</sup>, Bin Ye, Klaus Hubacek, Kuishuang Feng, Olli Varis. 2021. “Quantifying economic-social-environmental trade-offs and synergies of water-supply constraints: An application to the capital region of China.” *Water Research* (2021 IF: 13.4), Vol. 195, article no. 116986. <https://doi.org/10.1016/j.watres.2021.116986>.
45. Zhang, Y., X. Li, S. Wang; Y. Yao, Q. Li, W. Tu, H. Zhao, H. Zhao, K. Feng, L. Sun<sup>4</sup>, K. Hubacek. 2021. “A global North-South division line for portraying urban development.” *iScience* (2021 IF: 6.107; 5-yr IF: 6.233), Vol. 24, Issue 7, article no. 102729, <https://doi.org/10.1016/j.isci.2021.102729>.
46. Wang, S., R. Toumi, Q. Ye, Q. Ke, J. Bricker, Z. Tian, L. Sun<sup>4</sup>. 2021. “Is the tropical cyclone surge in Shanghai more sensitive to landfall location or intensity change?” *Atmospheric Science Letters* (2021 IF: 2.992), Vol. 22, Issue 10, e1058. <https://doi.org/10.1002/asl.1058>.
47. Lamb, W.F., T. Wiedmann, J. Pongratz, ..., K. Hubacek, L. Sun<sup>4</sup>, ..., J. Minx. 2021. “A review of trends and drivers of greenhouse gas emissions by sector from 1990 to 2018.” *Environmental Research Letters* (2021 IF: 6.947), Vol. 16, article no. 073005, pp. 1-31. <https://doi.org/10.1088/1748-9326/abee4e>.

48. Zhong, Honglin, Kuishuang Feng, [Laixiang Sun](#)<sup>3</sup>, Zhan Tian, Gunther Fischer, Li Cheng, Raul Munoz Castillo. 2021. “Water-land Tradeoffs to Meet Future Demands for Sugar Crops in Latin America and the Caribbean: A Bio-physical and Socio-economic Nexus Perspective.” *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 169, article no. 105510. <https://doi.org/10.1016/j.resconrec.2021.105510>.
49. Tian, Zhan, Yidan Fan\*, Kai Wang, Honglin Zhong, [Laixiang Sun](#)<sup>2</sup>, Dongli Fan, Francesco N. Tubiello, Junguo Liu. 2021. “Searching for ‘Win-Win’ Solutions for Food-Water-GHG Emissions Tradeoffs across Irrigation Regimes of Paddy Rice in China.” *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 166, article no. 105360. <https://doi.org/10.1016/j.resconrec.2020.105360>.
50. Xin, Yu\*, [Laixiang Sun](#)<sup>2</sup>, Matt Hansen. 2021. “Biophysical and socioeconomic drivers of oil palm expansion in Indonesia.” *Environmental Research Letters* (2021 IF: 6.947). Vol. 16 article no. 034048, pp-1-17. <https://doi.org/10.1088/1748-9326/abce83>.
51. Tian, Zhan, Yinghao Ji\*, Hanqing Xu\*, Huanguang Qiu, [Laixiang Sun](#)<sup>2</sup>, Honglin Zhong, Junguo Liu. 2021. “The potential contribution of growing rapeseed in winter fallow fields across Yangtze River Basin to energy and food security in China.” *Resources, Conservation & Recycling* (2021 IF: 13.716). Vol. 164, article no. 105159. <https://doi.org/10.1016/j.resconrec.2020.105159>.
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220. Sun, Laixiang.<sup>1</sup> 2020. "Ownership Reform and the Vitality of Enterprises," in Peking University Guanghua School of Management (ed.), *Lifelong Scholarship: A Review of Li Yining's Economic Theory* (Beijing: The Commercial Press), Chapter 6, pp. 67-78.

221. Fischer, Günther, Laixiang Sun,<sup>2</sup> 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.
222. Sun, Laixiang.<sup>1</sup> 1992. "Inflation and Pricing Mechanism," in Li, Yining (ed.), *The Positive Analysis of China's Macro-Economy* (Beijing: Peking University Press), Chapter 11.
223. Sun, Laixiang<sup>2</sup> 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.
224. Li, Yining, Laixiang Sun<sup>2</sup> 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.
225. Li, Yining and Laixiang Sun.<sup>1</sup> 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.
226. Sun, Laixiang.<sup>1</sup> 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.
227. Li, Yining, Laixiang Sun,<sup>3</sup> 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)

228. 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.
229. 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.
230. Book Review, *Towards a Labour Market in China* (by John Knight and Lina Song), *Economica*, 74, 294 (May 2007): 375-376.
231. 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.
232. Book Review, *The Development of China's Stock Market, 1984-2002* (by Stephen Green), *China Quarterly*, no. 178 (June 2004): 513-514.
233. Book Review, *Integrating China into the Global Economy* (by Nicholas Lardy), *China Quarterly*, no. 176 (Dec. 2003): 1084-85.
234. Book Review, *The Development of Corporate Governance in China* (by On Kit Tam), *Asian-Pacific Economic Literature* 15, 2 (Nov. 2001): 44-45.
235. 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).
236. Book Review, *Growing out of the Plan: Chinese Economic Reform, 1978-1993* (by B.J. Naughton), *Development and Change* 28, 2 (April 1997).
237. 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).
238. Book Review, *Chinese Economy in Transition* (Y. Wu and X. Zhang [eds.]), *Development and Change* 26, 3 (July 1995): 601-03.

239. “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-investigator in “Cheniere Life Cycle Assessment Study” project sponsored by Cheniere Energy (Contract no. 24128996), July 2024-Dec 2025 (USD 316,774 to the UMD).
- Co-investigator in a NASA-LCLUC Project (80NSSC20K1490) – “Soybean Expansion in South America: Quantifying Historical Land-Use Change, Modeling Socioeconomic Drivers and Projecting Future Trajectories.” January 2021-December 2024 (USD 450,000).
- 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 2021 (EUR 280,000 + RMB 3 million + GBP 300,000).
- Co-Principal Investigator in a NASA-LCLUC 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 PI in “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-IDS Project – “Integrating Remote Sensing Observations with NASA’s GEOS-5 Modeling Framework in Support of Retrospective Analyses and Seasonal Prediction of Biosphere-Atmosphere CO<sub>2</sub> Flux,” July 2017-June 2021 (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 Program 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 6<sup>th</sup> 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 5<sup>th</sup> 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.

## 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 2014-2020; Spring Semester 2022-2024.
- *Urban Geography* (GEOG 333), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Spring Semester 2018-2021, 2023, 2024.
- *Introduction to Human Geography* (GEOG 202), undergraduate students, Department of Geographical Sciences, University of Maryland, College Park, USA, Fall Semester 2021, 2023, 2024.
- *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.