**CURRICULUM VITAE**

**PERSONAL INFORMATION**

**Name:** YANSUI LIU

**Date of Birth:** 3 April 1965 **Nationality**: Chinese

**Work address**: Institute of Geographic Sciences and Natural

Resources Research (IGSNRR), Chinese Academy of Sciences

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**POSITION AND SPECIALICATION**

Professor Liu is the fellow of The World Academy of Sciences (TWAS), fellow of the Geographical Society of China (GSC), professor and Ph.D. supervisor in the Institute of Geographic Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences (CAS), University of CAS (<http://people.ucas.edu.cn/~liuyansui?language=en>). He serves as the Director of Key Laboratory of Regional Sustainable Development Modeling, CAS; Director General, Rural Planning and Governance Engineering Technology Innovation Center, Ministry of Natural Resources; Chair, International Geographical Union (IGU) Commission on Agricultural Geography and Land Engineering (AGLE); Chair, ANSO Alliance of Poverty Reduction and Development (ANSO-APRD); Chair, the Branch on Geographical Engineering, Geographical Society of China; Director, China Urban-Rural Development Think Tank Alliance; Associate Editor of Land Use Policy, Economic Geography, Geographical Sciences.

Professor Liu has long been committed to the research and practice of human and economic geography, regional agriculture and urban-rural development, human-earth system science(HESS), and basic theories of rural areal systems (RAS). He has combined the theories, technological methods and practical applications, achieved systematic innovation in areas such as regional land consolidation and optimization, modern agricultural areal system evolution and zoning, mechanisms and governance of rural poverty and hollowing out, and agricultural geographic engineering and technology models. These scientific acknowledge has been used to guide global regional development, policy formulations and national decision supports.

**Academic achievements and contributions**

(1) Taking the lead in introducing the theory of human-earth relationship areal system into land system science research, proposing the human-earth composite system and its hierarchical effects, land allocation hierarchy theory and land resource engineering, and modern agriculture dual-optimization project, innovatively developing human-earth system science (HESS) and geographic engineering (GE).

(2) Revealed the principles, evolution laws, driving mechanisms, and new pattern of "North Grain South Adjustment" of China's agricultural areal system driven by climate change, and formulated the "China Modern Agricultural Zoning" plan in the new century (2018).

(3) Created the theory of rural areal system (RAS), explored the multi-body nature and multi-level goals of RAS, systematically revealed the relationship between rural decline and rural diseases, the rhythm of rural hollowing out and the model of hollowed village consolidation, the theory of urban-rural development transformation and rural revitalization, the theory and technical system of poverty isolation effect and effectiveness evaluation, etc.

(4) Hosted the establishment of five research demonstration bases of national comprehensive geographic engineering, promoting land engineering technology demonstration and high-quality development practice. In 2016, he initiated the establishment of the International Geographic Union’s Commission on agricultural geography and land engineering (IGU-AGLE) and served as the first chairman; In 2020, he initiated the establishment of the Alliance of Poverty Reduction and Development (ANSO-APRD) in the Belt and Road and served as the first chairman, leading the internationalization of research on agricultural geography and land engineering, targeted poverty alleviation and rural revitalization. In 2018, he was elected an academician of TWAS, and in 2022, he was elected a Fellow of the Geographical Society of China.

**PROFESSIONAL APPOINTMENTS**

Director General, Rural Planning and Governance Engineering Technology Innovation Center, Ministry of Natural Resources, 2023-present.

Director General, Key Laboratory of Regional Sustainable Development Modeling, CAS, 2019-present.

Director General, Center for Assessment and Research on Targeted Poverty Alleviation, CAS,

December 2016-2023.

Adjunct Professor, University of Chinese Academy of Sciences (UCAS), 2009-present.

Dean, Yellow River Institute of Shaanxi Province, Northwest University (China), November 2020- present.

Yangtze River Scholar Distinguished Professor, Beijing Normal University, December 2013- 2018.

Professor and Director General, Center for Regional Agriculture and Rural Development, IGSNRR, CAS, April 2004-2018.

Associate Professor and Deputy Director, IGSNRR, CAS, June 2000-April 2004.

**SOCIETY APPOINTMENT**

Chair, the Branch on Geographical Engineering, Geographical Society of China, 2023-present.

Chair, Alliance of Poverty Reduction and Development (APRD), ANSO, 2020-present.

Chair, International Geographical Union (IGU) Commission on Agricultural Geography and Land Engineering (AGLE), December 2016-present.

Honorary advisory board member of Universal Scientific Education and Research Network (USERN), 2018-present..

Director general, China Urban-Rural Development Think Tank Alliance, 2015-present.

Vice-Chairman, China Land Science Society, 2018-present.

Vice-director general, the Agricultural Resource and Zoning Society of China, 2014-present.

Chair, the Subcommission on Agricultural and Rural Development, Geographical Society of China, 2008-present.

Expert member, the Department of Rural Technology, Ministry of National Science- Technology, 2013-present.

Expert member, the key project review of National Social Science Fundation of China (NSSFC), 2012-present.

Expert member, the key project review of National Natural Science Fundation of China(NSSFC), 2011-present.

Academic advisor, the Decision-making Advisory Committee of Yulin City, Shaanxi, 2010-present.

Editorial Board, Chinese Science Bulletin, Science Bulletin*,* 2023-present.

Associate Editor, Land Use Policy*,* 2018-present.

Editorial Board, Bulletin of Chinese Academy of Sciences, 2018-present.

Associate Editor, Economic Geography, 2016-present.

Associate Editor, Journal of Agricultural Resources and Environment, 2014-present.

**PROJECT MANAGEMENT**

As the principal investigator, he has undertaken 70 research projects sponsored by National Natural Science Foundation of China (NSFC), NSSFC, CAS, MLR, MAC and the Ministry of Science and Technology, etc.

**Selected Projects**

1. Major Project of National Natural Science Foundation of China (NSFC): Cooperative Observation, Transformation Mechanism and Scenario Simulation of Rural Areal System (No. 42293270) [2023-2027].
2. Key Project of the National Natural Science Foundation of China (NSFC): Evolution process of rural man-land system and its resource and environment effects in China (No. 41931293) [2020-2024].
3. Key Project of National Natural Science Foundation of China (NSFC): The impact of rural-urban development transformation on resources and its optimal controlling: Case study of the Bohai Rim Region in China (No. 41130748) [2012-2016].
4. Key Project of National Natural Science Foundation of China (NSFC): Models of new countryside construction and methods for sustainable development in eastern coastal China (No. 40635029) [2007-2010].
5. Project of National key Research and Development Program: Ecological security guarantee technology and demonstration of gully and slope consolidation in the loess hilly and gully region (2017YFC0504700) [2017-2021].
6. Strategic Priority Research Program of the Chinese Academy of Sciences: Technology and demonstration of rural revitalization regional mode and planning (No. XDA230703) [2018-2023].
7. Project of The State Council Leading Group of Poverty Alleviation and Development: Principal priorities for third-party evaluation of the effectiveness of national targeted poverty alleviation [2016-2021, Once a year, for a total of 6 years].
8. Project of the General Office of the State Council of China: Third-party evaluation on the implementation of the State Council’s major policies and measures to alleviate and shake off poverty in a targeted manner [2015].
9. Major projects of the National Social Science Foundation: The Influence of urbanization on the agriculture and rural development and its countermeasures in China (15ZDA021) [2016-2017].
10. The NSFC General Project: Dynamic mechanisms and territorial models for land-use optimization based on urban–rural integration (No. 41471143) [2015-2018].
11. The NSFC General Project: Research on the Impact Mechanism and Optimization Path of Resource Development in the Ecotone of China (No.40871257) [2008-2011].
12. General Office of the CPC Central Committee: The key research project on the land use system reform of rural China [2014].
13. National Science and Technology Support Project: Key technology research and demonstration of hollowed village comprehensive consolidation (2014BAL01B00) [2014-2017].
14. The Project of the Chinese Academy of Sciences: Urbanization models and policies in agricultural region of China [2012-2014].
15. The Knowledge Innovation Program of the Chinese Academy of Sciences: Key issues of rural hollowing in the process of rapid urbanization (KZCX2-EW-304) [2010-2013].
16. The Key Engineering Projects of Land Consolidation in Yanan Shaanxi Supported by Central Government [2012-2013].
17. The Key Engineering Projects of High-Standard Farmland Construction in Weihe Basin of Shaanxi Supported by Central Government [2011-2012].
18. The Project of the Chinese Academy of Sciences: Research on the Potential and Planning of Village Land Consolidation (KSCX-YW-09) [2009-2012]
19. Major Project of Knowledge Innovation Project of Chinese Academy of Sciences (KZCX1-SW-19-01) [2006-2010]
20. The project of the National 973 Program "The Impact of Northern Drought on Land, Water Resources, and Food Security and Adaptation Strategies" (2006CB400505)

**PUBLICATIONS**

Liu has published more than 600 scientific papers, 280 of which have published in SCI/SSCI journals like *Nature*, *Science, Land Use Policy, Journal of Rural Studies, Habitat International, Applied Geography etc*. He also has published 20 monographs and 36 commentaries and policy analyses in the country’s official newspapers, e.g., People’s Daily, Guangming Daily, and Global Times（[Renowned Chinese geographer revitalizes rural villages through science, innovation - Global Times](https://www.globaltimes.cn/page/202403/1309301.shtml)）. He and his team have submitted about 36 important advisory reports to the Central Government in recent years. He is selected as the Top 1% Scientists based on Thomson Reuters and the Global Highly Cited Researchers since 2018 from the Clarivate Analytics.

**Selected Articles/Books**

1. **Liu Yansui**, Li Yuheng. Revitalize the world’s countryside. *Nature*, 2017, 548(7667): 275-277.
2. **Liu Yansui\***, Liu Yaqun, Ou Cong. Scientific cognition and detection methods of modern human-earth system. *Chinese Science Bulletin*, 2024, 69: 447–463
3. **Liu Yansui\***, Ou Cong, Li Yurui, Zhang Liqiang, He Jianhua. Regularity of rural settlement changes driven by rapid urbanization in North China over the three decades. *Science Bulletin*, 2023*, 68*(18): 2115-2124.
4. **Liu Y**ansui, Liu Xueqi, Liu Zhengjia. Effects of climate change on paddy expansion and potential adaption strategies for sustainable agriculture development across Northeast China. *Applied Geography*, 2022,141:102667.
5. **Liu Yansui**, Zang Yuzhu, Yang Yuanyuan. China’s rural revitalization and development: Theory, technology and management. *Journal of Geographical Sciences*, 2020, 30(12): 1923-1942.
6. **Liu Yansui**, Zou Lilin, Wang Yongsheng. Spatial-temporal characteristics and influencing factors of agricultural eco-efficiency in China in recent 40 years. *Land Use Policy*, 2020, 97:104794.
7. **Liu Yansui,** Wang Yongsheng. Rural land engineering and poverty alleviation: Lessons from typical regions in China. *Journal of Geographical Sciences*, 2019, 29(5): 643-657.
8. **Liu Yansui**. Introduction to land use and rural sustainability in China. *Land Use Policy*, 2018, 74(5): 1-4.
9. **Liu Yansui**, Zhang Ziwen, Zhou Yang. Efficiency of construction land allocation in China: An econometric analysis of panel data. Land Use Policy. 2018,74(5): 261-272.
10. **Liu Yansui**, Li Jintao, Yang Yuanyuan. Strategic adjustment of land use policy under the economic transformation. *Land Use Policy*, 2018, 74: 5-14.
11. **Liu Yansui,**Liu Jilai, Zhou Yang. Spatio-temporal patterns of rural poverty in China and targeted poverty alleviation strategies. *Journal of Rural Studies*, 2017, 52: 66-75.
12. **Liu Yansui,** Guo Yanjun, Li Yurui, Li Yuheng. GIS-based effect assessment of soil erosion before and after gully land consolidation: A case study of Wangjiagou project region, Loess Plateau. *Chinese Geographical Science*, 2015, 25(2): 137-146.
13. **Liu Yansui,** Zhou Yang, Wu Wenxiang. Assessing the impact of population, income and technology on energy consumption and industrial pollutant emissions in China. *Applied Energy*, 2015, (155): 904-917.
14. **Liu Yansui,** Fang Fang, Li Yuheng. Key issues of land use in China and implications for policy making. *Land Use Policy*, 2014, 40 (3): 6-12.
15. **Liu Yansui**, Lu Shasha, Chen Yufu. Spatio-temporal change of urban-rural equalized development patterns in China and its driving factors. *Journal of Rural Studies*, 2013, (32): 320-330.
16. **Liu Yansui,** Zhang Yanyu, Guo Liying. Towards realistic assessment of cultivated land quality in an ecologically fragile environment: A satellite imagery-based approach. *Applied Geography*, 2010, 30(2):271-281.
17. **Liu Yansui**, Liu Yu, Chen Yangfen, Long Hualou. The process and driving forces of rural hollowing in China under rapid urbanization. *Journal of Geographical Sciences*, 2010, 20(6): 876-888.
18. **Liu Yansui**, Wang Lijuan, Long Hualou. [Spatio-temporal analysis of land-use conversion in the eastern coastal China during 1996-2005](http://papers.cnki.net/MyPaper/Detail.aspx?tablesource=2&dbname=-&filename=e3cc9115810e4d488fd8e3fbd75b5855&uid=24042539" \t "_blank). *Journal of Geographical Sciences*, 2008, 18(3): 274-282.
19. **Liu Yansui**. Urban-Rural Transformation Geography. Springer Press, 2021.

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1. **Liu Yansui**. Typical Experience and Mode of China’s Poverty Alleviation. Beijing: People’s Publishing House, 2021.
2. **Liu Yansui**. Technology and Method for Targeted Poverty Alleviation Effectiveness Assessment. Beijing: Science Press, 2020.
3. **Liu Yansui**. China’s Urbanization and Agricultural and Rural Development. Beijing: Science Press, 2020.
4. **Liu Yansui** et al. Technology and Method for the Effectiveness Evaluation of Targeted Poverty Alleviation. Beijing: Science Press, 2020.
5. **Liu Yansui**, Hualou Long, Jieyong Wang. Agricultural Modernizations and Peasants in China. Beijing: Science Press, 2014.
6. **Liu Yansui**. Geography of New Countryside Construction in China. Beijing: Science Press, 2011.
7. **Liu Yansui**, Hualou Long, Yufu Chen, et al. Research Report on Rural Development in China: Hollowed Village and Its Renovation Strategy. Beijing: Science Press, 2011.
8. **Liu Yansui**, Yeqiao Wang, Yufu Chen, et al. Study on Land Use System Assessment and Improvement Decisions: A Case Study of Hainan Province. Beijing: Science Press, 2011.
9. **Liu Yansui**, Weiyuan Zheng. Sustainable Land Use of China. Beijing: Science Press, 2008.
10. **Liu Yansui**, et al. Save Food around Us. Beijing: Science Press, 2008.
11. **Liu Yansui**. Optimal Allocation of Regional Land Use. Beijing: Academy Press, 1999.

**AWARDS/HONORS**

1. The Third National Innovation Pacesetter Award, from the China Association for Science and Technology, 2023
2. The IGU Distinguished Geographical Practice Award, from the International Geographical Union, 2022
3. The Fellow of the Geographical Society of China, 2022.
4. China New Development Awards, from Springer Nature, 2022.
5. National Advanced Collective for Poverty Alleviation, from the Central Committee of the Communist Party of China and State Council, 2021.
6. The Fellow of The World Academy of Sciences (TWAS), 2018
7. 2018 TWAS Prize in Social Sciences, 2017.
8. First Prize on National Land and Resources Scientific and Technological Progress, from the Ministry of Natural Resources of the People’s Republic of China, 2020.
9. First Prize on The Land and Resources Science and Technology Award, from the China Land Science Society, 2019.
10. Second Award of the Scientific and Technological Progress of the State, from the State Council, 2019.
11. Prize for technology innovation team of high-level innovative science and technology personnel training engineering, from Ministry of Natural Resources, 2018.
12. Innovation Prize for Targeted Poverty Alleviation in China, from the State Council Leading Group Office of Poverty Alleviation and Development, 2018.
13. Prize for promoting science and technology development, from China Academy of Sciences, 2018
14. Advanced Individual Award, The State Council Leading Group Office of Poverty Alleviation and Development: Principal priorities for third-party evaluation of the effectiveness of national targeted poverty alleviation, 2016.
15. First Prize on Sciences and Technology Advancement Award, Ministry of Land Resources (MLR), 2013/2014.
16. First Prize on Sciences and Technology Advancement Award, Shaanxi Province in 2006 and 2012 and Hainan Province in 2009, respectively.
17. Second Prize on Sciences and Technology Advancement Award, Shaanxi Province in 2004 and Yunnan Province in 2009, respectively.
18. National outstanding scientists and technologists, 2012
19. First Prize on Academy-Local Government Cooperative Award, CAS, 2012.
20. Outstanding Science and technology achievement Award, CAS, 2009.

**INTERNATIONAL SYMPOSIUM**

1. “American Geophysical Union (AGU) Fall Meeting 2023”. Made “Scientific cognition and detection methods of modern human-earth system” report. 11-15 December. 2023, San Francisco, USA.
2. “Research on Human-Earth System Detection Based on Multi-source Data”. International Conference on Geography and Sustainable Development: Challenges and Opportunities. 26-29 October, 2023, Beijing, China.
3. “IGU SYMPOSIUM: The Relevance of Applied Population Geography Research”. Made “Characteristics of population flow and rural revitalization in China” report. 19-22 September. 2023, Lesvos, Greece.
4. “International Conference on Ecological Industrialization and Comprehensive Rural Revitalization”. The 5th IGU-AGLE International Conference. 6-7 May. 2023, Shaanxi, China.
5. “International Forum of Sustainable Poverty Reduction & Development and Rural Revitalization”. 25 February. 2023, Beijing, China.
6. “Thinking Urban-Rural interactions through Food and Land Use issues” , The Fourth IGU-AGLE International Conference. 24-26 March. 2021, Montpellier, France.
7. “International Conference of Global Poverty Reduction and Sustainable Development” and “Inaugural Conference of ANSO-APRD”. 16-18 November. 2020, Yunnan, China.
8. “Rethinking the Impacts of Urbanization on Agriculture and Land Use”. The Third IGU-AGLE International Conference. 22-24 October. 2019, Medan, Indonesia.
9. “Agricultural cropping system change under climate warming in the Loess Plateau of China”. 2nd World Congress on Climate Change. 26-28 September, 2019, Berlin, Germany.
10. “China’s Land Policy and Rural Revitalization Strategy”. The 14th TWAS General Conference and 28th General Meeting, 27-29 November. 2018, Trieste, Italy.
11. “China’s Land Policy and the Rural Revitalization Strategy”. The Second International Conference of IGU-AGLE Commission. October 17, 2018, Jönköping, Sweden.
12. “Land Engineering and Poverty Alleviation”. 19th Annual Meeting of World the Bank-“Land and Poverty”, 19-23 March. 2018, Washington D.C., USA.
13. “China’s Agricultural Geography and Land Use in Rural Areas”. 2018 IGU Regional Conference-CAG Annual Meeting-NCGE Annual Conference, Quebec, Canada.
14. “China's Targeted Poverty Alleviation and Its Enlightenment to the World”. Searching for Science-based Solutions to Poverty Eradication and Sustainable Development- InterAcademy Partnership (IAP). 9-10 December. 2017, Beijing, China.
15. Hosting the session “Peasants and Rural Villages in Transformation” in BOAO Forum for Asian Annual Conference, Bo Ao, China.
16. “Sustainable Agriculture and Land Use Strategy under Climate Change in China”. GeoDryland International Collaborative Research Initiative 1St Science Committee Meeting, 19-20 October, 2017, Virginia, USA.
17. “The challenges and strategies of food security under rapid urbanization in China”. The sixth agro-geoinformatics annual conference. 7-10 August. 2017, Virginia, USA.
18. “Land Engineering for Agricultural Sustainability-from China to the world”. The First IGU-AGLE Commission Conference on Global Rural Development and Land Capacity Building. 26-29 August. 2017, Yulin, China.
19. “Agricultural Development and Land Engineering: from China to world”. Association of American Geographers Annual Meeting (AAG), 7-9 April. 2017, Boston USA.
20. “Rural Hollowing Problem in China: The Evolution Process, Driving Forces and Policy Implications”. Association of American Geographers Annual Meeting (AAG) 29 March-2 April, 2016, San Francisco, America.
21. “Adjustment of Land Use and Rural Policy Under the Economic Transformation in China”. International Conference on Land Use and Rural Sustainability. 17-20 August. 2016, Xi’an, China.
22. “Differentiation of rural poverty and its reduction strategies”. International Conference on Territorial Inequality and Rural Development. 25-27 Jan. 2016, Puebla, Mexico.
23. “Comprehensive Analysis of Hollowing Villages in China: A transformation perspective”. International Geographical Union Conference. 17-22 Aug. 2015, Moscow.
24. “National New-type Urbanization Plan and rural transformation development in China”. The Eleventh Workshop on Social Capital and Development Trends in the Swedish and Japanese Countryside. 21-22 August, 2014, Östersund, Sweden.
25. “Food Security and Governance of Land Tenure in China”. International Seminar of Increasing Awareness on the Voluntary Guidelines on the Responsible Governance of Land Tenure, FAO, CAAS, 23 June 2014, Beijing.
26. “Rural Hollowing and Land Consolidation under Rapid Urbanization in China”. The 8th JAPAN-Korea-China Joint Conference on Geography, 1-2 August 2013, Fukuoka.
27. “Poverty Alleviation and Development Transformation and the Construction of Ecological Civilization”. The 15th Annual Meeting of the Chinese Science and Technology Association, 22-13 May 2013, Xingyi, Guizhou.
28. “Land Use Issues and Policy in China under Rapid Urbanization”. International Conference on Land Use Issues and Policy in China under Rapid Rural and Urban Transformation, 21-23 October 2012, Beijing.
29. “Building a New Countryside in China: Organization, and Practices”. The 3rd International Conference of the Institute of Rice, Life & Civilization, 26-27 October 2010, Chonbuk.
30. “The Rural Transformation Development and New Countryside construction in Coastal Region of China”. China-France International Symposium on Rural Construction and Development, 23-24 September 2007, Beijing.