

## **Liangzhi (Liang) You**

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### **EDUCATION**

Ph.D.	Civil Engineering, Johns Hopkins University, USA	1999
M.A.	Environmental Economics, Johns Hopkins University, USA	1999
M.Eng.	Geotechnical Engineering, Tsinghua University, China	1995
B.S.	Hydraulic Engineering, Tsinghua University, China	1990

### **WORK EXPERIENCE**

#### International Food Policy Research Institute, Washington, DC, USA

Theme Leader, Spatial Development Dynamics	2021 – present
Leader, Spatial Data and Analytics	2018 – 2021
Senior Research Fellow	2010 – present
Senior Scientist	2000 – 2010
Consultant	1999 – 2000

#### Huazhong Agricultural University, Wuhan, China

Director, Macro Agriculture Research Institute (MARI)	2018 - present
Visiting Professor	2008 - present

#### Yangtze River Conservation Commission, Wuhan, China

Engineer	1990 - 1993
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### **HONORS AND AWARDS**

1. Visiting Research Fellow, Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Halle, Germany, 2016-2025
2. Outstanding Publication in the Journal Environmental and Resource Economics (ERE), European Association of Environmental and Resource Economists, 2015
3. Outstanding Researcher's Award, IFPRI, 2012
4. OYCF-Ford Foundation Teaching Fellowship awarded by Oversea Young Chinese Forum, 2007
5. G. Chow Short-term Teaching Award awarded by Chinese Economists Society, 2006
6. Best Paper by Young Scientists, Millennium Ecosystem Assessment, Cairo, Egypt, 2003
7. Meyerhoff Fellowship awarded by The Johns Hopkins University, 1995

### **PROFESSIONAL ACTIVITIES**

1. Editor-in-Chief, Crop and Environment, 2022 - present
2. Editorial Board, Journal of Land Use Science, 2018 – present
3. Lead author, the International Panel on Social Progress, 2017-2019
4. PE(Professional Engineer), Maryland, USA, license #25869
5. Member of Science Committee, Global Land Project 3rd Open Science Meeting, October 24-27, 2016, Beijing, China

6. Keynote Speaker, Winter Meeting for The Federation for Earth Science Information Partners (ESIP), January 6-8, 2015, Washington, DC, USA
7. Member of Scientific Committee, the 3rd International Conference on Agro-Geoinformatics (Agro-Geoinformatics2014), August 11-14, 2014, Beijing, China
8. Member of Organizing Committee, 5<sup>th</sup> Annual CAER-IFPRI Conference: Institutional Innovation and Rural Development, Wuhan, China, October 17-18, 2013
9. Member of the International Technical Program Committee, 35th International Symposium on Remote Sensing of Environment (ISRSE 35), Beijing, 2013
10. Member of Scientific Committee, the 2nd International Conference on Agro-Geoinformatics (Agro-Geoinformatics2013), August 12-16, 2013, Fairfax, United States
11. Organizer, Global Production System Characterization: SPAM and Beyond, June 6- 7, 2013, Washington, DC, USA
12. Co-organizer, Characterizing and Validating Global Land Cover Workshop, June 13~15, 2011, Vienna, Austria
13. Co-organizer, International Conference on Food Security Strategy in Yemen, Saana, Yemen, July 1~3, 2010.
14. Co-organizer, African Green Revolution Workshop, April 17-18, 2009, The World Bank, Washington, DC, USA
15. Co-organizer, Risk Analysis and Avian Influenza Conference. August 12~18, 2008, International livestock Research Institute(ILRI) campus, Nairobi, Kenya.
16. Co-organizer, International Conference on Agricultural R&D Strategies for Agriculture-led Development in the WCA. Nov 10-15, 2006, Dakar, Senegal
17. Organizer, workshop on Spatial Crop Allocation Methodologies and Algorithms for Poverty Mapping. June 2-4, 2003, FAO (Food and Agriculture Organization of United Nations), Rome, Italy.
18. Co-organizer, The CGIAR Systemwide Livestock Programme Workshop on Identifying Feed Resources Deficit, their Drivers, and Potential Interventions at ILRI (International Livestock Research Institute). March 4-12, 2006, Nairobi, Kenya.
19. Co-organizer, Technical Meeting on Regional Strategic Priorities for Agricultural Growth and Poverty Reduction in West Africa. September 25-October 3, 2006, Ibadan, Nigeria.
20. Reviewer for *Agricultural Economics*, *Agricultural System*, *American Journal of Agricultural Economics*, *Australian Journal of Agricultural Economics*, *Canadian Journal of Agricultural Economics*, *China Economic Review*, *Chinese Journal of Economics and Business Studies*, *Ecological Economics*, *Environmental Research Letter*, *Food Policy*, *Geophysical Research Letter*, *International Journal of Applied Economics*, *Irrigation Science*, *Journal of Agricultural Economics*, *Journal of Applied Statistics*, *Journal of Biogeochemical Cycles*, *Land Use Policy*, *Nature*, *Nature Climate Change*, *Proceeding of National Academy of Sciences (PNAS)*, *Remote Sensing*, *Review of International Economics*, *Science*, *Science Advances*, *Global Change Biology*, *Global Ecology and Biogeography*, *Global Environment Change*, *Global Biogeochemical Cycles*,

*Environmental Modelling and Software, Journal of Rural Studies, IEEE Transaction on Geoscience and Remote Sensing, Journal of Land Use Science, Journal of Integrative Agriculture, Food Security.*

21. Invited seminars at Beijing Forestry University, Chinese Academy of Agricultural Sciences, Chinese Academy of Sciences, China Agricultural University, Harvard University, The University of Hong Kong, Central China Normal University, International Institute for Applied System Analysis (IIASA), Johns Hopkins University, Renmin University, Shanghai University of Finance and Economics, Stanford University, Tsinghua University, University of Connecticut, Utrecht University, World Bank, Wuhan University, Nanjing University.

### **SUPERVISOR OR EXTERNAL COMMITTEE MEMBER OF PHD STUDENTS**

Huazhong Agricultural University (China): Long Ji (2015), Malan Huang (2018), Jie Hu (2023), Hui Tao (2023)

Chinese Academy of Agricultural Sciences (China): Zhuo Peng (2006)

University of Göttingen (Germany): Hengrong Luo (2021)

Humboldt University (Germany): Fang Yin (2020)

University of Connecticut (USA): Clement Alo (Borlaug LEAP Fellowship, 2011), Kazi Farzan Ahmed (2015), Meijian Yang (2020)

University of Wisconsin (USA): Jonathan Lala (2022)

George Mason University (USA): Alex Owusu (Borlaug LEAP Fellowship, 2012), Zhe Guo (2019)

### **PUBLICATIONS**

#### Peer-reviewed Journal Papers in English

#### **2023**

1. Wulahati Adalibieke, Xiaoqing Cui, Hongwei Cai, **Liangzhi You** & Feng Zhou. Global crop-specific nitrogen fertilization dataset in 1961–2020. September 2023, *Scientific Data* 10(1), DOI: 10.1038/s41597-023-02526-z
2. Yang, M., G. Wang, Y. Sun, **L. You**, R. Anyah. 2023. Water stress dominates the projected maize yield changes in Ethiopia. September 2023, *Global and Planetary Change* 228(5):104216, DOI: 10.1016/j.gloplacha.2023.104216
3. Zhiwen Cai, Qiong Hu, Xinyu Zhang, Jingya Yang, Haodong Wei, Jiayue Wang, Yelu Zeng, Gaofei Yin, Wenjuan Li, Liangzhi You, et al. Improving agricultural field parcel delineation with a dual branch spatiotemporal fusion network by integrating multimodal satellite data. *ISPRS Journal of Photogrammetry and Remote Sensing*, 2023, 205:34–49.
4. Zhe Guo, Jordan Chamberlin, **Liangzhi You**. Smallholder maize yield estimation using satellite data and machine learning in Ethiopia. *Crop and Environment* 2 (2023) 165–174, <https://doi.org/10.1016/j.crope.2023.07.002>
5. Racchana Ramamurthy; Julia Bleser; Flemming Konradsen; Solomon Kibret; Jeff Opperman; **Liangzhi You**; Kees Sloff; Matthew McCartney; Eric M. Fèvre; Eline Boelee. 2023. Human health impacts of dams and reservoirs: neglected issues in a One Health perspective. *Aquatic Ecosystem Health & Management* (2023) 26 (2): 96–112. <https://doi.org/10.14321/ae hm.026.02.096>

6. Yang, J., Qiong Hu, **Liangzhi You**, Z. Cai, Y. Chen, H. Wei, Z. Xu, Z. He, G. Yin, B. Xu. 2023. Mapping the potential northern limits and promotion extent of ratoon rice in China. *Applied Geography* 150 (January 2023): 102822. <https://doi.org/10.1016/j.apgeog.2022.102822>
7. Ru, Y., Blankespoor, B., Wood-Sichra, U., Thomas, T. S., **You, L.**, and Kalvelagen, E.: Estimating local agricultural gross domestic product (AgGDP) across the world, *Earth Syst. Sci. Data*, 15, 1357–1387, <https://doi.org/10.5194/essd-15-1357-2023>, 2023.
8. Zuo, C., Wen, C., Clarke, Andy Turner, Xinli Ke, **Liangzhi You**, Lanping Tang. Cropland displacement contributed 60% of the increase in carbon emissions of grain transport in China over 1990–2015. *Nature Food* (2023). <https://doi.org/10.1038/s43016-023-00708-x>
9. Jie Hu, Yunping Chen, Zhiwen Cai, Haodong Wei, Xinyu Zhang, Wei Zhou, Cong Wang, Liangzhi You, and Baodong Xu. Mapping Diverse Paddy Rice Cropping Patterns in South China Using Harmonized Landsat and Sentinel-2 Data. February 2023, *Remote Sensing* 15(4):1034, DOI: 10.3390/rs15041034
10. Weston Anderson, Walter Baethgen, Fabian Capitano, Philippe Ciais, ... **Liangzhi You**. 2023. Climate variability and simultaneous breadbasket yield shocks as observed in long-term yield records. *Agricultural and Forest Meteorology* 331 (2023) 109321. <https://doi.org/10.1016/j.agrformet.2023.109321>
11. Jonathan Lala, Mekdim D. Regassa, Ying Zhang, **Liangzhi You** and Paul Block. 2023. Incorporating Seasonality into an Agro-economic Model of Ethiopia. *Journal of Water Resources Planning and Management*, Volume 149 Issue 2 - February 2023. DOI: 10.1061/JWRMD5.WRENG-5785.

## 2022 and before

12. Hellin, Jon; Amarnath, Giriraj; Challinor, Andrew; Fisher, Eleanor; Girvetz, Evan; Guo, Zhe; Hodur, Janet; Loboguerro, Ana Maria; Pacillo, Grazia; Rose, Sabrina; Schutz, Tonya; Valencia, Lina; and **You, Liangzhi**. 2022. Transformative adaptation and implications for transdisciplinary climate change research. *Environmental Research: Climate* 1(1): 023001. <https://doi.org/10.1088/2752-5295/ac8b9d>
13. Tian, H., Bian, Z., Shi, H., Qin, X., Pan, N., Lu, C., Pan, S., Tubiello, F. N., Chang, J., Conchedda, G., Liu, J., Mueller, N., Nishina, K., Xu, R., Yang, J., **You, L.**, and Zhang, B.: History of anthropogenic Nitrogen inputs (HaNi) to the terrestrial biosphere: a 5 arcmin resolution annual dataset from 1860 to 2019, *Earth Syst. Sci. Data*, 14, 4551–4568, <https://doi.org/10.5194/essd-14-4551-2022>, 2022.
14. Zia Mehrabi, Ruth Delzeit, ..., **Liangzhi You**. 2022. Research priorities for global food security under extreme events. *One Earth*, Volume 5, Issue 7, 15 July 2022, Pages 756–766, <https://doi.org/10.1016/j.oneear.2022.06.008>
15. **Liangzhi You**, Z. Sun. 2022. Mapping global cropping system: Challenges, opportunities, and future perspectives. *Crop and Environment*, 1(2022) 68–73, <https://doi.org/10.1016/j.crope.2022.03.006>
16. Ndegwa, M., A. Shee, C. Turvey, **L. You**. 2022. Sequenced crop evapotranspiration and water requirement in developing a multi-trigger rainfall index insurance and risk-contingent credit. *Weather, Climate, Society* 14 (1): 19–38. <https://doi.org/10.1175/WCAS-D-21-0071.1>

17. Block, S., B. Haile, **L. You**, D. Headey. Heat shocks, maize yields, and child height in Tanzania. *Food Security* 14, 93-109(2022). <https://doi.org/10.1007/s12571-021-01211-6>
18. Ling, L., Shuai Y., Wang B., Zhan M., Li C., Wang J., Li Y., **You L.**, Cao C. 2021. Comparing rice production systems in China: economic output and carbon footprint. *Science of The Total Environment* 791. <https://doi.org/10.1016/j.scitotenv.2021.147890>
19. Shefang Liang, Wenbin Wu, Jing Sun, Zhipeng Li, Xiao Sun, Hao Chen, Shi Chen, Lingling Fan, **Liangzhi You** and Peng Yang. Climate-mediated dynamics of the northern limit of paddy rice in China. *Environmental Research Letters*, Volume 16, Number 6. 2021, 16, 064008, <https://doi.org/10.1088/1748-9326/abfac0>
20. Qiong Hu, He Yin, Mark A. Friedl, **Liangzhi You**, Zhaoliang Li, Huajun Tang, Wenbin Wu, Integrating coarse-resolution images and agricultural statistics to generate sub-pixel crop type maps and reconciled area estimates, *Remote Sensing of Environment*, Volume 258, 2021, 112365, ISSN 0034-4257, <https://doi.org/10.1016/j.rse.2021.112365>.
21. Xie, Hua; **You, Liangzhi**; Dile, Yihun T.; Worqlul, Abeyou W.; Bizimana, Jean Claude; et al. 2021. Mapping development potential of dry-season small-scale irrigation in Sub-Saharan African countries under joint biophysical and economic constraints: An agent-based modeling approach with an application to Ethiopia. *Agricultural Systems* 186(January 2021): 102987. <https://doi.org/10.1016/j.agsy.2020.102987>
22. Maulik Jagnani, Christopher B Barrett, Yanyan Liu, **Liangzhi You**, Within-Season Producer Response to Warmer Temperatures: Defensive Investments by Kenyan Farmers, *The Economic Journal*, Volume 131, Issue 633, January 2021, Pages 392–419, <https://doi.org/10.1093/ej/ueaa063>.
23. Lingling Fan, Shi Chen, Shefang Liang, Xiao Sun, Hao Chen, **Liangzhi You**, Wenbin Wu, Jing Sun, Peng Yang. 2020. Assessing long-term spatial movement of wheat area across China, *Agricultural Systems*, Volume 185, 2020,102933, <https://doi.org/10.1016/j.agsy.2020.102933>.
24. Xie, Lin; Qiu, Zeyuan; **You, Liangzhi**; Kang, Yang. 2020. A Macro Perspective on the Relationship between Farm Size and Agrochemicals Use in China. *Sustainability* 12, no. 21: 9299.
25. Yu, Q., **You, L.**, Wood-Sichra, U., Ru, Y., Joglekar, A. K. B., Fritz, S., Xiong, W., Lu, M., Wu, W., and Yang, P.. 2020. A cultivated planet in 2010 - Part 2. the global gridded agricultural production maps, *Earth Syst. Sci. Data*, 12, 3545–3572, <https://doi.org/10.5194/essd-12-3545-2020>.
26. Lu, M., Wu, W., **You, L.**, See, L., Fritz, S., Yu, Q., Wei, Y., Chen, D., Yang, P., and Xue, B.. 2020. A cultivated planet in 2010 – Part 1: The global synergy cropland map, *Earth Syst. Sci. Data*, 12, 1913–1928, <https://doi.org/10.5194/essd-12-1913-2020>.
27. Long, D., W. Yang, B. Scanlon, J. Zhao, D. Liu, P. Burek, Y. Pan, **L. You**, Y. Wada. 2020. South-to-North Water Diversion stabilizing Beijing's groundwater levels. *Nature Communications* (2020) 11: 3665. <https://doi.org/10.1038/s41467-020-17428-6>
28. Yihun Dile, Essayas K. Ayana, Abeyou W. Worqlul, Hua Xie, R. Srinivasan, Nicole Lefore, **Liangzhi You**, Neville Clarke. 2020. Evaluating satellite-based evapotranspiration estimates for hydrological applications in data-scarce regions: A case in Ethiopia, *Science of The Total Environment*, Volume 743, 2020, 140702, ISSN 0048-9697, <https://doi.org/10.1016/j.scitotenv.2020.140702>.
29. Ndegwa, M., A.Shee, **L. You**, C Turvey. 2020. Uptake of Insurance-Embedded Credit in Presence of Credit Rationing: Evidence from a Randomized Controlled Trial in Kenya.

*Agricultural Finance Review* Volume 80 Issue 5. <https://doi.org/10.1108/AFR-10-2019-0116>

30. Yang, M., Wang, G., Ahmed, K.F., Adugna, B., Eggen, M., Atsbeha, E., **You, L.**, Koo, J., Anagnostou, E., 2020. The role of climate in the trend and variability of Ethiopia's cereal crop yields. *Sci. Total Environ.* 137893. <https://doi.org/10.1016/j.scitotenv.2020.137893>.
31. Zhang, Ying; Liu, Xuejun; **You, Liangzhi**; and Zhang, Fusuo. 2020. Improving potential of nitrogen linked gray water footprint in China's intensive cropping systems. *Journal of Cleaner Production.* <https://doi.org/10.1016/j.jclepro.2020.122307>.
32. Yun Gao, Songhan Wang, Kaiyu Guan, Aleksandra Wolanin, **Liangzhi You**, Weimin Ju, and Yongguang Zhang. 2020. The Ability of Sun-Induced Chlorophyll Fluorescence From OCO-2 and MODIS-EVI to Monitor Spatial Variations of Soybean and Maize Yields in the Midwestern USA. *Remote Sensing* 12, 1111; doi:10.3390/rs12071111.
33. Aleksandra Wolanin, Gonzalo Mateo-García, Gustau Camps-Valls, Luis Gómez-Chova, Michele Meroni, Gregory Duveiller, **You Liangzhi** and Luis Guanter, 2020. Estimating and understanding crop yields with explainable deep learning in the Indian Wheat Belt. *Environmental Research Letters* 15(2), <https://doi.org/10.1088/1748-9326/ab68ac>
34. Zhang, J., Wang, C., Yang, C., Jiang, Z., Zhou, G., Wang, B., Shi, Y., Zhang, D., **You, L.**, Xie, J.. 2020. Evaluation of a UAV-mounted consumer grade camera with different spectral modifications and two handheld spectral sensors for rapeseed growth monitoring: performance and influencing factors. *Precision Agriculture* (2020). <https://doi.org/10.1007/s11119-020-09710-w>
35. Iimi, A., **You, L.** & Wood-Sichra, U. Spatial Autocorrelation Panel Regression: Agricultural Production and Transport Connectivity. *Networks and Spatial Economics* (2020). <https://doi.org/10.1007/s11067-019-09489-y>
36. Zhang, Y., P. Block, **L. You**, D. Lee. 2020. Integrating Climate Prediction and Regionalization into an Agro-economic Model to Guide Agricultural Planning, *Climatic Change* 158, 435–451(2020), <https://doi.org/10.1007/s10584-019-02559-7>
37. Zhang, X., X. Yu, **L. You**. 2020. Does the Granary County Subsidy Program Lead to manipulation of grain production data in China? *China Economics Review*, <https://doi.org/10.1016/j.chieco.2019.101347>
38. Anderson, W. B., R. Seager, W. Baethgen, M. Cane, **L. You**, Synchronous crop failures and climate-forced production variability. *Science Advances* 5(7), eaaw1976 (2019). DOI: 10.1126/sciadv.aaw197
39. Shee, A., Calum G. Turvey & **Liangzhi You** (2019): Design and rating of risk-contingent credit for balancing business and financial risks for Kenyan farmers, *Applied Economics*, DOI: 10.1080/00036846.2019.1613502
40. Guo X, Yang Y, Li Z, **You L**, Zeng C., Cao J, Hong Y. Drought Trend Analysis Based on the Standardized Precipitation–Evapotranspiration Index Using NASA's Earth Exchange Global Daily Downscaled Projections, High Spatial Resolution Coupled Model Intercomparison Project Phase 5 Projections, and Assessment of Potential Impacts on China's Crop Yield in the 21st Century. *Water*, 2019, 11(12):2455, <https://doi.org/10.3390/w11122455> .
41. Cai, Y., Kaiyu Guan, David Lobell, Andries Potgieter, Shaowen Wang, Jian Peng, Tianfang Xu, Senthold Asseng, Yongguang Zhang, **Liangzhi You**, BinPeng. 2019. Integrating satellite and climate data to predict wheat yield in Australia using machine learning approaches. Integrating satellite and climate data to predict wheat yield in



- Australia using machine learning approaches. *Agricultural and Forest Meteorology*, Volume 274, Pages 144-159. <https://doi.org/10.1016/j.agrformet.2019.03.010>.
42. Hu, Yanan; Fan, Lingling; Liu, Zhenhuan; Yu, Qiangyi; Liang, Shefang; Chen, Shi; **You, Liangzhi**; Wu, Wenbin; and Yang, Peng. Rice production and climate change in Northeast China: evidence of adaptation through land use shifts. *Environmental Research Letters*, 14 (2019) 024014. <https://doi.org/10.1088/1748-9326/aafa5>.
  43. Steffen Fritz, Linda See, Juan Carlos Laso Bayas, François Waldner, Damien Jacques, Inbal Becker-Reshef, Alyssa Whitcraft, Bettina Baruth, Rogerio Bonifacio, Jim Crutchfield, Felix Rembold, Oscar Rojas, Anne Schucknecht, Marijn Van der Velde, James Verdinj, Bingfang Wu, Nana Yan, **Liangzhi You**, Sven Gilliams, Sander Mücher, Robert Tetrault, Inian Moorthy, Ian McCallum. 2019. A comparison of global agricultural monitoring systems and current gaps. *Agricultural Systems*, Vol 168(2019), 258-272, <https://doi.org/10.1016/j.agsy.2018.05.010>.
  44. Li, Z., Guo, X., Yang, Y., Hong, Y., Wang, Z., **You, L.** 2019. Heatwave Trends and the Population Exposure Over China in the 21st Century as Well as Under 1.5C and 2.0C Global Warmer Future Scenarios. *Sustainability* 2019, 11, 3318; doi:10.3390/su11123318.
  45. Derek Headey, David Stifel, **Liangzhi You**, Zhe Guo. 2018. Remoteness, urbanization, and child nutrition in sub-Saharan Africa. *Agricultural Economics* 49,765-775, DOI: 10.1111/agec.12458.
  46. Long Ji, **Liangzhi You**, Linda See, Steffen Fritz, Chongguang Li, Shenyong, Zhang & Gucheng Li. 2018. Spatial and temporal changes of vegetable production in China, *Journal of Land Use Science*, 2018, VOL. 13, NO. 5, 494–507. DOI: 10.1080/1747423X.2018.1459908
  47. Xiaolin Guo, Mun Sing Ho, **Liangzhi You**, Jing Cao, Yu Fang, Taotao Tu, Yang Hong. 2018 Industrial Water Pollution Discharge Taxes in China: A Multi-Sector Dynamic Analysis. *Water* 2018, 10, 1742; doi:10.3390/w10121742
  48. Yin, F., Z. Sun, **L. You**, D. Muller. 2018. Increasing concentration of major crops in China from 1980 to 2011. *Journal of Land Use Science*, 2018, VOL. 13, NO. 5, 480–493 <https://doi.org/10.1080/1747423X.2019.1567838>
  49. Sun, Z., **L. You**, D. Muller. 2018. Synthesis of agricultural land system change in China over the past 40 years. *Journal of Land Use Science*, 2018, VOL. 13, NO. 5, 473–479 <https://doi.org/10.1080/1747423X.2019.1571120>
  50. Markus Enenkel, Carlos Farah, Christopher Hain, Andrew White, Martha Anderson, **Liangzhi You**, Wolfgang Wagner and Daniel Osgood. 2018. What Rainfall Does Not Tell Us—Enhancing Financial Instruments with Satellite-Derived Soil Moisture and Evaporative Stress. *Remote Sensing*, 2018, 10, 1819; doi:10.3390/rs10111819
  51. Liu, Zhenhuan; Yang, Peng; Wu, Wenbin; and **You, Liangzhi**. 2018. Spatiotemporal changes of cropping structure in China during 1980–2011. *Journal of Geographical Sciences* 28(11): 1659–1671. <https://doi.org/10.1007/s11442-018-1535-4>
  52. Xie, H., Nicostrato Perez, Weston Anderson, Claudia Ringler & **Liangzhi You**. 2018 Can sub-Saharan Africa feed itself? The role of irrigation development in the region’s drylands for food security. *Water International*, 43:6, 796-814.
  53. Song, Lian, Luis Guanter, Kaiyu Guan, **Liangzhi You**, Alfredo Huete, Weimin Ju, Yongguang Zhang. 2018. Satellite sun-induced chlorophyll fluorescence detects early

- response of winter wheat to heat stress in the Indian Indo-Gangetic Plains. *Global Change Biology* 24(9), p.4023-4037. <https://doi.org/10.1111/gcb.14302>.
54. Wu, W., Q. Yu, **L. You**, K. Chen, H. Tang, J. Liu. 2018. Cropping Intensity Gaps: The Potential for Expanding Global Harvest Areas. *Land Use Policy* 78(2018) 515-525
  55. Komarek, A., J. Koo, U. Wood-Sichra, **L. You**. 2018. Spatially-explicit effects of seed and fertilizer intensification for maize in Tanzania. *Land Use Policy* 78(2018) 158-165
  56. Wu, X., J. Zhang, **L. You**. 2018. Marginal Abatement Cost of Agricultural Carbon Emissions in China: 1993-2015. *China Agricultural Economics Review*, 10(4), 558-571, <https://doi.org/10.1108/CAER-04-2017-0063>.
  57. Li, Y., Jinxia Wang, Jikun Huang, Bhim Adhikari and **Liangzhi You**. 2018. Supply Reliability of Groundwater Irrigation, Climate Change and Tubewell Density in Rural China. *China Agricultural Economics Review* 10(3), p.354-371
  58. Yu, Q., J. van Veliet, P. H. Verburg, **L. You**, P. Yang, W. Wu. 2018. Harvested area gaps in China between 1981 and 2010: effects of climatic and land management factors. *Environmental Research Letters*, 13 044006.
  59. Ledlie, N A., H Alderman, J L Leroy, **L You**. 2018. Rainfall shocks are not necessarily a sensitive early indicator of changes in wasting prevalence. *European Journal of Clinical Nutrition* 72, 177–178. doi:10.1038/ejcn.2017.144.
  60. Xie, H., **L. You**, H. Takeshima. 2017. Invest in small-scale irrigated agriculture: A national assessment on potential to expand small-scale irrigation in Nigeria. *Agricultural Water Management* 193 (2017) 251–264X,
  61. Fritz, S., L. See, C. Perger, McCallum, C Schill, D Schepaschenko, M Duerauer, M Karner, C Dresel, J. Laso-Bayas, M Lesiv, I Moorthy, C Salk, O Danylo, T Sturn, F Albrecht, **L You**, F Kraxner & M Obersteiner. 2017. A global dataset of crowdsourced land cover and land use reference data. *Scientific Data*, 4:170075, DOI: 10.1038/sdata.2017.75.
  62. Lu, M.; Wu, W.; **You, L.**; Chen, D.; Zhang, L.; Yang, P.; Tang, H. A Synergy Cropland of China by Fusing Multiple Existing Maps and Statistics. *Sensors* 2017, 17, 1613.
  63. Harou, A.P., Y. Liu, C. B. Barrett, **L.You**. 2017. Variable Returns to Fertiliser Use and the Geography of Poverty: Experimental and Simulation Evidence from Malawi. *Journal of African Economies*, 2017, 1–30, doi: 10.1093/jae/ejx002
  64. Hua, C., R. T. Woodward, and **L. You**. 2017. An Ex-Post Evaluation of Agricultural Extension Programs for Reducing Fertilizer Input in Shaanxi, China. *Sustainability* 2017, 9, 566; doi:10.3390/su9040566.
  65. Yu, Q., Wenbin Wu, **L.You**, T. Zhu, J. van Vliet, P.H. Verburg, Z. Liu, Z. Li, P. Yang, Q. Zhou, H. Tang. 2017. Assessing the harvested area gap in China. *Agricultural Systems*, Volume 153, Pages 212–220, <http://dx.doi.org/10.1016/j.agsy.2017.02.003>.
  66. Wang, G., K. F. Ahmed, **L. You**, M. Yu, J. Pal, and Z. Ji. 2017. Projecting regional climate and cropland changes using a linked biogeophysical-socioeconomic modeling framework: 1. Model description and an equilibrium application over West Africa, *J. Adv. Model. Earth Syst.*, 9, doi:10.1002/2016MS000712.
  67. Ahmed, K. F., G. Wang, **L. You**, R. Anyah, C. Zhang, and A. Burnicki. 2017. Projecting regional climate and cropland changes using a linked biogeophysical-socioeconomic modeling framework: 2. Transient dynamics, *J. Adv. Model. Earth Syst.*, 9, doi:10.1002/2016MS000721.



68. Koo, J., C. M. Cox, M. Bacou, C. Azzarri, Z. Guo, U. Wood-Sichra, Q. Gong, **L. You**. 2016. CELL5M: A geospatial database of agricultural indicators for Africa South of the Sahara. *F1000Research* 2016, 5:2490 (doi: 10.12688/f1000research.9682.1)
69. Li, X., Nianjie Liu, **L. You**, Xinli Ke, Haijun Liu, Malan Huang, Stephen, R. Waddington. 2016. Patterns of Cereal Yield Growth across China from 1980 to 2010 and Their Implications for Food Production and Food Security. *PLoS ONE* 11 (7): e0159061. doi:10.1371/journal.pone.0159061
70. Ahmed, K. F., G. Wang, **L. You**, and M. Yu. 2016. Potential impact of climate and socioeconomic changes on future agricultural land use in West Africa. *Earth System Dynamics* 7, 151-165, doi:10.5194/esd-7-151-2016
71. Ahmed, K. F., G. Wang, M Yu, J Koo, **L. You**. 2015. Potential impact of climate change on cereal crop yield in West Africa. *Climatic Change* 133(2), 321-334
72. Li, Z., Z. Liu, W. Anderson, P. Yang, W. Wu, H. Tan, **L. You**. 2015. Chinese Rice Production Area Adaptations to Climate Changes, 1949–2010. *Environmental Science & Technology* 49 (4), pp 2032–2037, DOI: 10.1021/es505624x
73. Fritz, S., L. See, I. McCallum, **L. You**, et al.. 2015. Mapping global cropland and field size, *Global Change Biology* 21, 1980–1992, doi: 10.1111/gcb.12838
74. See, L., S. Fritz, **L. You**, N. Ramankutty, M. Herrero, C. Justice, I. Becker-Reshef, P. Thornton, K. Erb, P. Gong, H. Tang, M. van der Velde, P. Ericksen, I. McCallum, F. Kraxner, M. Obersteiner. 2015. Improved global cropland data as an essential ingredient for food security. *Global Food Security*, Volume 4, page 37-45
75. Enekel, M., L. See, R. Bonifacio, V. Boken, N. Chaney, P. Vinck, **L. You**, E. Dutra, M. Anderson. 2015. Drought and food security – Improving decision-support via new technologies and innovative collaboration. *Global Food Security* Volume 4, page 51-54
76. Maystadt, J.F., M. Calderone; **L. You**. 2015. Local warming and violent conflict in North and South Sudan. *Journal of Economic Geography* 15 (3): 649-671, doi: 10.1093/jeg/lbu033
77. Li, W., C. Zhang, M. R. Willig, D. K. Dey, G. Wang, **L. You**. 2015. Bayesian Markov chain random field cosimulation for improving land cover classification accuracy. *Mathematical Geosciences*, Volume 47, Issue 2 (2015), Page 123-148
78. Anderson, W, **L. You**, S. Wood, U. Wood-Sichra, W. Wu. 2015. An analysis of methodological and spatial differences in global cropping systems models and maps. *Global Ecology and Biogeography* Volume 24, Issue 2, Page 180-191
79. Li, Man, A. De Pinto, J. Ulimwengu, **L. You**, R. Robertson. 2015. Impacts of road expansion on deforestation and biological carbon loss in the Democratic Republic of Congo. *Environment and Resource Economics*. Volume 60, Issue 3, Page 433-469
80. Yu, Q., WU Wen-bin, LIU Zhen-huan, Peter H Verburg, XIA Tian, YANG Peng, LU Zhongjun, **YOU Liangzhi** and TANG Hua-jun. 2014. Interpretation of climate change and agricultural adaptations by local household farmers: A case study at Bin county, Northeast China. *Journal of Integrative Agriculture* 13(7): 1599-1608
81. WU Wen-bin, YU Qiang-yi, Verburg H Peter, **YOU Liang-zhi**, YANG Peng and TANG Hua-jun. 2014. How could agricultural land systems contribute to raise food production under global change? *Journal of Integrative Agriculture* 13(7): 1432-1442
82. **You, L.**, S. Wood, U. Wood-Sichra, W. Wu. 2014. Generating global crop distribution maps: From census to grid. *Agricultural Systems* 127 (2014) 53–60

83. **You, L.**, H. Xie, U. Wood-Sichra, Z. Guo, L. Wang. 2014. Irrigation potential and investment return in Kenya. *Food Policy* **47** (2014) 34–45
84. Tan, Jieyang; Yang, Peng; Liu, Zhenhuan; Wu, Wenbin; Zhang, Li; Li, Zhipeng; **You, Liangzhi**; Tang, Huajun; and Li, Zhengguo. 2014. Spatio-temporal dynamics of maize cropping system in Northeast China between 1980 and 2010 by using spatial production allocation model. *Journal of Geographical Sciences* 24(3): 397-410
85. Headey, D., A. S. Taffesse, **L. You**. 2014. Diversification and development in pastoralist Ethiopia. *World Development* **56**:200-213.
86. Xie, H., **L. You**, B. Wielgosz, C. Ringler. 2014. Estimating the potential for expanding smallholder irrigation in Sub-Saharan Africa. *Agricultural Water Management* 131(2014): 183-193
87. Xiong, W., I. Holman, **L. You**, J. Yang & W. Wu. 2014. Impacts of observed growing-season warming trends since 1980 on crop yields in China. *Regional Environmental Change* **14**(1), 7-16
88. Li, G., Z. Feng, **L. You**, L. Fan. 2013. Re-examining the inverse relationship between farm size and efficiency: The empirical evidence in China. *China Agricultural Economic Review* 5(4): 473-488
89. Liu Z.H., Li Z.G., Tang P.Q., Li Z.P., Wu W.B., Yang P., **You L.Z.**, Tang H.J.. 2013. Changes analysis of rice area and production in China during the past three decades. *Journal of Geographical Sciences* 23(6): 1005-1018, DOI: 10.1007/s11442-013-1059-x
90. Liu, J., S. Tian, J. Liu, H. Yang, C. Zang, S. Jia, **L. You**, B. Liu, M. Zhang. 2013. Water conservancy projects in China: Achievements, challenges and way forward. *Global Environmental Change* **23**: 633-643.
91. van der Velde, M., L. See, **L. You**, J. Balkovič, S. Fritz, N. Khabarov, M. Obersteiner and S. Wood. 2013. Affordable nutrient solutions for improved food security as evidenced by crop trials. *PLoS ONE* 8(4): e60075. doi:10.1371/journal.pone.0060075
92. Fritz, S., L. See, **L. You**, C. Justice, I. Becker-Reshef, L. Bydekerke, R. Cumani, P. Defourny, K. Erb, J. Foley, S. Gilliams, P. Gong, M. Hansen, T. Hertel, M. Herold, M. Herrero, F. Kayitakire, J. Latham, O. Leo, I. McCallum, M. Obersteiner, N. Ramankutty, J. Rocha, H. Tang, P. Thornton, C. Vancutsem, M. van der Velde, S. Wood, C. Woodcock. 2013. The need for improved maps of global cropland. *Eos, Transactions American Geophysical Union* **94**(3): 31-32. DOI: 10.1002/2013EO030006
93. Yu, B., **L. You**. 2013. A typology of food security in developing countries. *China Agricultural Economic Review* **5**(1), p.118-153, DOI: 10.1108/17561371311294810.
94. Notenbaerta, A. , M. Herrero, H Groote, **L You**, E Gonzalez-Estrada, M. Blummel. 2013 Identifying recommendation domains for targeting dual-purpose maize-based interventions in crop-livestock systems in East Africa. *Land Use Policy* **30**(1), 834-846
95. Ma K, **You L**, Liu J, Zhang M.. 2012. A hybrid wetland map for China: A synergistic approach using census and spatially explicit datasets. *PLoS ONE* **7**(10): e47814. doi:10.1371/journal.pone.0047814
96. **You, L.** 2012. A tale of two countries: Spatial and temporal patterns of rice productivity in China and Brazil. *China Economic Review* **23**(3), Pages 690–703
97. Dorosh, P., H. Wang, **L. You**, and E. Schmidt. 2012. Road connectivity, population and crop production in Sub-Saharan Africa: Spatial correlations and analysis. *Agricultural Economics* **43**(1), 89-103.

98. Bingxin Yu, F. Liu, **L. You**. 2012. Dynamic agricultural supply response under economic transformation: A case study of Henan, China. *American Journal of Agricultural Economics* 94(2):370-376, doi: 10.1093/ajae/aar114.
99. **You, L.**, C. Ringler, U. Wood-Sichra, R. Robertson, S. Wood, T. Zhu, G. Nelson, Z. Guo and Y. Sun. 2011. What is the irrigation potential for Africa? A combined biophysical and socioeconomic approach. *Food Policy* 36(6): 770-782
100. Cai, X., Y. C. E. Yang, C. Ringler, J. Zhao, and **L. You**. 2011. Agricultural water productivity assessment for the Yellow River Basin. *Agricultural Water Management* 98(8): 1297-1306.
101. Wu, W., P. Yang, H. Tang, **L. You**, Q. Zhou, Z. Chen, and R. Shibasaki. 2011. Global-scale assessment of potential future risks of food insecurity. *Journal of Risk Research*. DOI:10.1080/13669877.2011.571794.
102. Li, Gucheng, **L. You** and Z. Feng. 2011. The sources of total factor productivity growth in Chinese agriculture: technological progress or efficiency gain? *Journal of Chinese Economic and Business Studies* 9(2), 181-203.
103. Fritz, S., **L. You**, A. Bun, L. See, I. McCallum, C. Schill, J. Liu, M. Hansen, M. Obersteiner. 2011. Cropland for Sub-Saharan Africa: A synergistic approach using five land cover datasets. *Geophysical Research Letter* 38(4). doi:10.1029/2010GL046213.
104. **You, L.**, M. Spoor, J. Ulimwengu, S. Zhang. 2011. Land use change and environmental stress of wheat, rice and corn production in China. *China Economic Review* 22(2011), 461-473.
105. Wu, W., H. Tang, P. Yang, **L. You**, Q. Zhou, Z. Chen, R. Shibasaki. 2011. Scenario-based assessment of future food security. *Journal of Geographical Sciences* 21(1): 3-17, DOI: 10.1007/s11442-011-0825-x.
106. Ringler, C., X. Cai, J. Wang, A. Ahmed, Y. Xue, Z. Sue, E. Yang, J. Zhao, T. Zhu, L. Cheng, Y. Fu, X. Fu, X. Gu, and **L. You**. 2010. Yellow River Basin: Living with scarcity. *Water International* 35 (5): 681—701. DOI: 10.1080/02508060.2010.509857.
107. Liu, J., **L. You**, M. Amini, M. Obersteiner, M. Herrero, A. Zehnder, H. Yang. 2010. A high-resolution assessment of global nitrogen flows in cropland. *Proceedings of National Academy of Sciences of USA*, 107: 8035-8040. doi:10.1073/pnas.0913658107.
108. **You, L.**, M. Johnson. 2010. Exploring strategic priorities for regional agricultural R&D investments in east and central Africa. *Agricultural Economics* 41:177-190.
109. **You, L.**, S. Wood, U. Wood-Sichra. 2009. Generating plausible crop distribution and performance maps for Sub-Saharan Africa using a spatially disaggregated data fusion and optimization approach. *Agricultural Systems* 99(2-3): 126-140.
110. **You, L.**, M. Rosegrant, S. Wood, D. Sun. 2009. Impact of growing season temperature on wheat productivity in China. *Agricultural and Forest Meteorology* 149(6-7):1009-1014. doi:10.1016/j.agrformet.2008.12.004.
111. Liu, J., S. Fritz, C.F.A. van Wesenbeeck, M. Fuchs, **L. You**, M. Obersteiner, H. Yang. 2008. A spatially explicit assessment of current and

- future hotspots of hunger in Sub-Sahara Africa in the context of global change. *Global and Planetary Change* **64 (3-4)**: 222-235, doi:10.1016/j.gloplacha.2008.09.007.
112. Shiferaw, B., T. A. Kebede, **L. You**. 2008. Technology adoption under seed access constraints and the economic impacts of improved pigeon-pea varieties in Tanzania. *Agricultural Economics* **39**: 309-323.
113. **You, L.** and X, Diao. 2007. Assessing potential impact of avian influenza on poultry in West Africa –A spatial equilibrium model analysis. *Journal of Agricultural Economics(UK)* **58 (2)**: 348-367.
114. **You, L.**, S. Wood, U. Wood-Sichra, J. Chamberlin. 2007. Generating plausible crop distribution maps for Sub-Sahara Africa using a spatial allocation model. *Information Development* 23(2-3): 151-159.
115. Bolwig, S. and **L. You**. 2007. Quality or volume? An economic evaluation of coffee development strategies for Uganda. *Development In Practice* **17 (3)**: 433-438.
116. Shiferaw, B., S. Silim, G. Muricho, P. Audi, F. Mligo, S. Lyimo, L. You, J. Christiansen. 2007. Assessment of the adoption and impact of improved pigeonpea varieties in Tanzania. *Journal of Semi-Arid Tropical Agricultural Research* 5(1), December 2007
117. **You, L.** and S. Bolwig. 2006. An evaluation of alternative development strategies for Robusta coffee in Uganda. *The ICFAI Journal of Business Strategy* **3(4)**: 19-40
118. Msangi, S., M.W. Rosegrant, and **L. You**. 2006. Advancing ex-post assessment methods of climate forecast impacts. *Climate Research* **32(2)**: 56-68.
119. **You, L.** and S. Wood. 2006. An entropy approach to spatial disaggregation of agricultural production. *Agricultural Systems* **90(1 -3)**: 329-347.
120. **You, L.** and S. Wood. 2005. Assessing the spatial distribution of crop areas using a cross-entropy method. *International Journal of Applied Earth Observation and Geoinformation* **7(4)**: 310-323.
121. Wood, S., **L. You** and X. Zhang. 2004. Spatial patterns of crop yields in Latin America and the Caribbean. *Cuadernos de Economia: Latin American Journal of Economics*, **41**(December): 361-381.
122. Wang, G., and **L. You**. 2004. Delayed impact of the North Atlantic Oscillation on biosphere productivity in Asia, *Geophysical Research Letters* **31(12)**, L12210, doi:10.1029/2004GL019766.
123. Michalowski, R.L. and **L. You**. 2000. Displacement of reinforced slopes subjected to seismic loads. *Journal of Geotechnical and Geoenvironmental Engineering (ASCE)* **126(8)**: 685-694.
124. **You, L.** and R. L. Michalowski. 1999. Displacement charts for simple slope under seismic loading. *Computers and Geotechnics* **25(1)**: 45-55.
125. Michalowski, R.L. and **L. You**. 1998. Effective width rule in calculations of bearing capacity of shallow footings. *Computers and Geotechnics* **23(4)**: 237-253.
126. Michalowski, R. L. and **L. You**. 1998. Non-symmetrical limit loads on strip footings. *Soils and Foundations* **38(4)**: 195-203.

1. 游良志, 2021. 我国农业农村数字化的现状、问题及对策。 数字前沿, 2021 年第 4 期。  
You Liangzhi, 2021. China's rural digitization: status, challenges and solutions. *Digital Frontier*, Volume 4, 2021.
2. 左丽君、吴炳方、游良志、黄文江、孟冉、董莹莹、潘天石、王亚非, 2021, 地球大数据支撑粮食可持续生产: 实践与展望。中国科学院院刊, 2021 年第 8 期  
Zuo Lijun, Wu Binfang, You Liangzhi, Huang Wenjiang, Meng Ran, Dong Yinyin, Pan Tianshi, Wang Yafei. 2021. Earth Big Data Supports Sustainable Food Production: Practice and Perspective. *Proceedings of Chinese Academy of Sciences*, Volume 8, 2021.
3. 谭晓艳, 张晓恒, 游良志. 2019. 自然因素和政策干预对中国棉花生产布局变迁的影响. 农业技术经济, 2019 年 12 月. <https://doi.org/10.13246/j.cnki.jae.20191204.00>  
Tan, X., X Zhang, L. You, 2019. Natural drivers and policy interventions on cotton production pattern in China. *Agricultural Technology Economics*, 2019. <https://doi.org/10.13246/j.cnki.jae.20191204.00>
4. 陈浩 李正国 唐鹏钦 胡亚南 谭杰扬 刘珍环 游良志 杨鹏. 2016. 气候变化背景下东北水稻的时空分布特征。《应用生态学报》2016 年, 第 8 期, 2571-2579 页  
Chen, H, Yang Peng, Wu Wenbin, Li Zhengguo, You Liangzhi. 2016. Spatial and Temporal Rice Distribution in Northeast China Under Climate Change. *Chinese Journal of Applied Ecology* 2016, Vol. 8, page 2571-2579
5. 刘珍环, 杨鹏, 吴文斌, 李正国, 游良志. 2016. 近 30 年中国农作物种植结构时空变化分析。地理学报, 第 71 卷第 5 期, 828-839 页  
LIU Zhenhuan, YANG Peng, WU Wenbin, LI Zhengguo, YOU Liangzhi. Spatio-temporal changes in Chinese crop patterns over the past three decades. *Journal of Geographical Sciences* Vol.7(5): 828-839
6. 朱月季, 周德翼, 游良志, 2015. 非洲农户的资源禀赋、内在感知对技术采纳的影响——基于奥罗米亚州的农户调查[J]. 资源科学, 2015 (8) : 1629-1638.  
Zhu, Yueji, Zhou Deyi, You Liangzhi. 2015. Impact of African farmers' natural endowment, internal perception on technology adoption. *Resource Science*, 2015(8): 1629-1638
7. 唐鹏钦, 杨鹏, 陈仲新, 李正国, 游良志, 刘珍环, 吴文斌, 姚艳敏. 2013. 利用交叉信息熵模拟东北地区水稻种植面积空间分布。农业工程学报第 29 卷, 第 17 期, 96-103  
Tang Pengqin, Yang Peng, Chen Zhongxin, Li Zhengguo, You Liangzhi, Liu Zhenhuan, Wu Wenbin, Yao Yanmi. 2013. Using cross-entropy method simulates spatial distribution of rice in Northeast China. *Transactions of the Chinese Society of Agricultural Engineering* **29(17)**: 96-103
8. 刘珍环, 李正国, 唐鹏钦, 李志鹏, 吴文斌, 杨鹏, 游良志, 唐华俊. 近 30 年中国水稻种植区域与产量的时空变化分析. 地理学报, 2013, 68(5): 680 - 693.



- Liu Z.H., Li Z.G., Tang P.Q., Li Z.P., Wu W.B., Yang P., You L.Z., Tang H.J. 2013. Changes analysis of rice area and production in China during the past three decades. *Journal of Geographical Sciences* 68(5): 680 -693
9. 张玉梅, 游良志, 刘凤伟。2009。中国农业科研投资区域分配及其经济效率研究。《中国科技论坛》2009年第06期。  
Zhang, Y., **L. You**, F. Liu. 2009. AEZ allocation and economic efficiency of Chinese agricultural R&D investment. *Forum on Science and Technology in China* 6: 120-129(in Chinese)
10. 彭卓, 游良志, 周新安, 李先德。2008。DREAM 在中国农业研发效果经济评价上的应用——以大豆新品种"中豆 35"研发为例。《中国农学通报》2008年第24卷第06期  
Peng, Z., **L. You**, X. Zhou, X. Li. 2008. Dynamic Decision Support System For Agricultural R&D Evaluation——DREAM and Case Study of ZhongDou 35. *Chinese Agricultural Science Bulletin* 24(6): 512-518(in Chinese)
11. 彭卓, 张社梅, 游良志。2007。DREAM 系统在农业科研资源评价中的应用。《农业技术经济》2007年第1期  
Zhang, S., Z. Peng, **L. You**. 2007. Application of DREAM in evaluation of resources for agricultural research. *Journal of Agrotechnical Economics* 2007 (1): 93-97 (in Chinese).
12. 张社梅, 游良志。2007。DREAM 系统及其在中国的应用评价。《世界农业》2007年第11期。  
Zhang, S., **L. You**, 2007. Evaluation of DREAM model and its potential application in China. *World Agriculture* 2007 (11): 56-62 (in Chinese)
13. 彭卓, 游良志。2006。动态科研决策评价系统-DREAM。《农业技术经济》，2006年增刊。  
Peng, Z. and **L. You**. 2006. Decision support system for dynamic research evaluation - DREAM model. *Journal of Agrotechnical Economics* 2006 Supplement: 72-79 (in Chinese).

### Books/Monographs

1. Rosegrant, Mark W., Valmonte-Santos, Rowena, Thomas, Timothy S., **You, Liangzhi**, Chiang, Catherine A. 2015. Climate change, food security, and socioeconomic livelihood in Pacific Islands. Asian Development Bank and International Food Policy Research Institute (IFPRI). 367 pp.
2. Robinson, T.P., Thornton P.K., Franceschini, G., Kruska, R.L., Chiozza, F., Notenbaert, A., Cecchi, G., Herrero, M., Epprecht, M., Fritz, S., **You, L.**, Conchedda, G. & See, L. 2011. *Global livestock production systems*. Rome, Food and Agriculture Organization of the United Nations (FAO) and International Livestock Research Institute(ILRI), 152 pp.
3. Nin-Pratt, A., M. Johnson, E. Magalhaes, **L. You**, X. Diao, and J. Chamberlin. 2011. Yield Gaps and Potential Growth in Western and Central Africa. *IFPRI Research Monograph*. International Food Policy Research Institute (IFPRI), Washington, USA. DOI: 10.2499/9780896291829.

4. Nelson, G. C., M. Rosegrant, A. Palazzo, I. Gray, C. Ingersoll, R. Robertson, S. Tokgoz, T. Zhu, T. Sulser, C. Ringler, S. Msangi, **L. You**. 2010. Food security, farming, and climate change to 2050. *IFPRI Research Monograph*. International Food Policy Research Institute (IFPRI), Washington, USA. DOI: [10.2499/9780896291867](https://doi.org/10.2499/9780896291867).
5. Omamo, S. W., X Diao, S Wood, J Chamberlin, **L. You**, S Benin, U Wood-Sichra, ATatwangire, and S Ketema. 2006. Strategic priorities for agricultural development in Eastern and Central Africa. *Research Report 150*, International Food Policy Research Institute, Washington, DC, USA
6. Wood, S., **L. You**, W. Baitx. 2005. Dynamic Research Evaluation for Management (*DREAM*), International Food Policy Research Institute (IFPRI), Washington, DC, USA, 2005

### Book Chapters

1. Apurba Shee, Michael Ndegwa, Calum G. Turvey, **Liangzhi You**, 2022. Transforming Food Systems through Risk Contingent Credit in Rural Africa: Development, Experimentation, and Evaluation. In *Transforming Food Systems in Kenya for a New Era of Growth and Prosperity* by Clemens Breisinger, Joseph Karugia, Michael Keenan, Juneweenex Mbutia
2. Walker, Tom, Christopher Ward, Rafael Torquebiau, Hua Xie, Weston Anderson, Nikos Perez, Claudia Ringler, **Liangzhi You**, Nicola Cenacchi, Tom Hash, Fred Rattunde, Eva Weltzien, Jawoo Koo, Federica Carfagna, Raffaello Cervigni, Michael Morris. 2015. Agriculture: More Water and Better Farming for Improved Food Security. In *Confronting Drought in Africa's Drylands: Opportunities for Enhancing Resilience* edited by Raffaello Cervigni and Michael Morris. Africa Development Forum series. Washington, DC: World Bank.
3. Ecker, Olivier; Breisinger, Clemens; McCool, Christen; Diao, Xinshen; Funes, Jose; **You, Liangzhi**; and Yu, Bingxin. 2013. Food security in Yemen: An integrated, cross-sector, and multi-level analysis. In *Developing countries: Political, economic and social issues*, ed, Arthur Ramazzotti, and Walther Gravina. Chapter 1. Hauppauge, NY, USA: Nova Science Publishers.
4. Diao, X., **L. You**, V. Alpuerto and R. Folledo. 2012. Assessing Agricultural Potential in South Sudan – A Spatial Analysis Method. Chapter 8 in *Application of Geographic Information Systems* (ISBN 978-953-51-0824-5, edited by Bhuiyan Monwar Alam). <http://dx.doi.org/10.5772/47938>.
5. Pardey, P.G., S. Wood, U.Wood-Sichra, C. Chan-Kang, and **L. You**. 2010. Setting the economic scene. Chapter 2 in P.G. Pardey, S. Wood, and R. Herford (eds.), *Research Futures: Projecting Agricultural R&D Potentials for Latin America and the Caribbean*, Washington, DC and St. Paul: IFPRI, IDB, and InSTePP, 2010.
6. Wood, S., K. Sebastian, and **L. You**. 2010. Spatial perspectives. Chapter 3 in P.G. Pardey, S. Wood, and R. Herford (eds.), *Research Futures: Projecting Agricultural R&D*

*Potentials for Latin America and the Caribbean*, Washington, DC and St. Paul: IFPRI, IDB, and InSTePP, 2010.

7. Alston, J.M., P. Pardey, S. Wood, and **L. You**. 2010. Projecting Agricultural R&D Potentials. In P.G. Pardey, S. Wood, and R. Herford (eds.), *Research Futures: Projecting Agricultural R&D Potentials for Latin America and the Caribbean*, Washington, DC and St. Paul: IFPRI, IDB, and InSTePP, 2010.
8. **You, L.**, M. Rosegrant, C. Fang and S. Wood. 2008. The impact of global warming on Chinese wheat productivity. In *China's Dilemma: Economic growth, the environment and climate change*(L. Song and W.T.Woo eds).The Australian National University Press, Canberra, Australia, p. 265-275.
9. **You, L.** T. Zhu. 2007. From basin to pixel: high resolution cereal water productivity on a global scale. In Van Bers, C., Petry, D. and Pahl-Wostl, C. eds., *Global assessments: bridging scales and linking to policy*. GWSP Issues in Global Water System Research, No.2. GWSP IPO, Bonn.
10. Alcamo, J., Weiss, M., Schaldach, R., Voss, F. and **You, L.** 2007. Future cropland in Africa: the outlook for green and blue water fluxes. In Van Bers, C., Petry, D. and Pahl-Wostl, C. eds., *Global assessments: bridging scales and linking to policy*. GWSP Issues in Global Water System Research, No.2. GWSP IPO, Bonn.
11. Alston, J. M. P.G. Pardey, S. Wood, and **L. You**. 2004. Strategic technology investments for LAC agriculture: a framework for evaluating the local and spillover effects of R&D, in Hertford, Pardey and Wood (eds), *Assessing Agricultural R&D Priorities in LAC and the Caribbean*, Inter-American Development Bank and International Food Policy Research Institute, Washington, USA
12. **You, L.** A. Acquaye, S. Wood and P. Pardey. 2002. Generating new knowledge for strategic agricultural R&D assessment in Eastern and Central Africa (ECA): Preliminary baseline simulations of the potential economic impact of productivity growth in major food and cash crops. *Compendium of Impact Studies 2002* by W. Masters and J. Sanders(eds.), Purdue University, USA.
13. **You, L.** and R. L. Michalowski .1999. Reinforced slopes subjected to seismic loads. in *Numerical Models in Geomechanics – NUMOG VII*, Pande, Pietruszczak & Schweiger (eds.), 1999 Balkema, Rotterdam, ISBN 90 5809 0957
14. **You, L.** and R. L. Michalowski. 1999. Displacements of slopes subjected to seismic loads. in *Slope Stability Engineering*, Yagi, Yamagami & Jiang (editors), 1999 Balkema, Rotterdam, ISBN 90 5809 0795

### Popular Articles

1. See, L., Fritz, S., Thornton, P., **You, L.**, Becker-Reshef, I., Justice, C., Leo, O. and Herrero, M. 2011. Building a Consolidated Community Global Cropland Map. *Earthzine*. <http://www.earthzine.org/2012/01/24/building-a-consolidated-community-global-cropland-map/>
2. Dorosh, P., H. Wang, **L.You**, and E. Schmidt. 2011. Road connectivity and its impact on crop production. *PositionIT*, Aug/Sept, 2011, <http://z.positionit.eepublishers.co.za/index.aspx?issue=issue19&page=41>
3. [Nelson, G. C., M. Rosegrant, A. Palazzo, I. Gray, C. Ingersoll, R. Robertson, S. Tokgoz, T. Zhu, T. Sulser, C. Ringler, S. Msangi, L. You. 2010. Food security and climate](#)

[change: Challenges to 2050s and beyond. IFPRI Issue Brief 66. International Food Policy Research Institute \(IFPRI\), Washington, USA](#)

4. [Xue, Yunpeng and L. You. 2010. Water Right Transfer Experiment and the Impact on the Water Resources Management Policy In China: an Overview. \*Journal of the Washington Institute of China Studies\*, Vol. 5, No. 2, p52-66.](#)
5. [Cai, X. Y.-C.E. Yang, C. Ringler, and L. You. 2010. Water Productivity Assessment for China's Yellow River Basin. \*IFPRI Project Brief\*. International Food Policy Research Institute \(IFPRI\), Washington, USA](#)
6. [You, L.. 2009. World food price bubble and China's food security. \*Journal of Washington Institute of China Studies\* 4\(1\): 22-31](#)
7. [You, L. 2008. Food and agriculture. in \*National Geographic Atlas of China\*, National Geographic Society, Washington, DC, USA.](#)
8. [Diao, X., A. Nin Pratt, M. Gautam, J. Keough, J. Chamberlin, L.You, D. Puetz, D. Resnick, and B. Yu. 2006. Ethiopia : growth options and poverty reduction, \*Issue brief addendum 45\*. Washington, DC / Entebbe, Uganda: International Food Policy Research Institute \(IFPRI\) / Eastern and Central Africa Programme for Agricultural Policy Analysis \(ECAPAPA\)](#)

## Blogs

1. Heat shocks linked to lower maize yields and reduced child height: Evidence from Tanzania. Research Blog, October 5, 2021. <https://www.ifpri.org/blog/heat-shocks-linked-lower-maize-yields-and-reduced-child-height-evidence-tanzania>
2. 1.15 Million Children, 122,472 communities, 57 countries, 30 years: New dataset combines Demographic and Health Surveys with geographic information systems. <https://www.ifpri.org/blog/115-million-children-122472-communities-57-countries-30-years-new-dataset-combines-demographic>. February 22, 2021
3. New IFPRI-China collaborations promote evidence-based policymaking and capacity building around the world. <https://www.ifpri.org/blog/new-ifpri-china-collaborations-promote-evidence-based-policymaking-and-capacity-building-around>. March 25, 2019
4. Cultivating Growth in Nigerian Agriculture with Small-Scale Irrigation. <https://www.ifpri.org/blog/cultivating-growth-nigerian-agriculture-small-scale-irrigation>. January 4, 2018
5. New Global Crop Data Aid in Food Policy Decisions. <http://harvestchoice.org/labs/new-global-crop-data-aid-food-policy-decisions>. April 15, 2015
6. Global Cropland Maps Make Global News. <http://harvestchoice.org/labs/global-cropland-maps-make-global-news>. March 2, 2015
7. Local warming and violent conflict in Sudan. <http://pim.cgiar.org/2014/08/26/local-warming-and-violent-conflict-in-sudan/> . November, 2014
8. Mapping crops to improve food security. <http://www.pim.cgiar.org/2014/08/20/mapping-crops-to-improve-food-security/>. August, 2014
9. Global Production System Characterization: SPAM and Beyond. <http://harvestchoice.org/labs/global-production-system-characterization-spam-and-beyond>. April, 2014

## Working Papers

1. Blankespoor, Brian; Ru, Yating; Wood-Sichra, Ulrike; Thomas, Timothy S.; You, Liangzhi; Kalvelagen, Erwin. 2022. Estimating Local Agricultural GDP across the World. *Policy Research Working Paper 10109*, World Bank, Washington, DC, USA.
2. Thomas, Timothy S.; You, Liangzhi; Wood-Sichra, Ulrike; Ru, Yating; Blankespoor, Brian; Kalvelagen, Erwin. 2019. Generating gridded agricultural gross domestic product for Brazil : A comparison of methodologies. *Policy Research Working Paper 8985*, World Bank, Washington, DC, USA.
3. Atsushi Iimi, Liangzhi You and Ulrike Wood-Sichra. 2018. Crop Production, Transport Infrastructure, and Agrobusiness Nexus: Evidence from Madagascar. *World Bank Policy Research Working Paper*, World Bank, Washington, DC, USA, <https://doi.org/10.1596/1813-9450-8486>
4. Iimi, Atsushi, **You, Liangzhi**, Wood-Sichra, Ulrike, Humphrey, Richard Martin. 2015. Agriculture production and transport infrastructure in East Africa: An application of spatial autoregression. World Bank Policy Research Working Paper, WPS 7281, World Bank, Washington, DC, USA. Revised and resubmitted to Networks and Spatial Economics
5. Wu, W., **L. You**, K. Chen. 2015. Cropping Intensity Gaps: The Potential for Expanding Global Harvest Areas. IFPRI Discussion Paper 01459. International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Land Use Policy.
6. Harou, A., Y. Liu, C. Barrett, **L. You**. 2014. Variable Returns to Fertilizer Use and Its Relationship to Poverty: Experimental and Simulation Evidence from Malawi. *IFPRI Discussion Paper 01373*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to The Economic Journal
7. Anderson, W, **L. You**, S. Wood, U. Wood-Sichra, W. Wu. 2014. A Comparative Analysis of Global Cropping Systems Models and Maps. *IFPRI Discussion Paper 01327*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Global Ecology and Biogeography
8. Johnson, M., Benin, Samuel, **You, Liangzhi**, Diao, Xinshen, Chilonda, Pius, Kennedy, Adam. 2014. Exploring strategic priorities for regional agricultural research and development investments in Southern Africa. *IFPRI Discussion Paper 01318*, International Food Policy Research Institute, Washington, DC, USA
9. Headey, D., A. Taffesse, **L. You**. 2013. Improving Development Strategies in Pastoral Areas. *ESSP Research Note 23*, Ethiopia Strategic Support Program, Addis Ababa, Ethiopia. Revised and resubmitted to World Development
10. Calderone, C., J. F. Maystadt, L. You. 2013. Local Warming and Violent Conflict in North and South Sudan. *IFPRI Discussion Paper 01276*, International Food Policy Research Institute, Washington, DC, USA (LICOS Discussion Paper 335/2013, Katholieke Universiteit Leuven, Belgium). Revised and resubmitted to Journal of Economic Geography
11. Headey, D., A. Taffesse, **L. You**. 2012. Enhancing Resilience in the Horn of Africa: An Exploration into Alternative Investment Options. *IFPRI Discussion Paper 01176*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to World Development



12. Johnson, M., S. Benin, X. Diao, and **L. You**. 2011. Prioritizing regional agricultural R&D investments in Africa: Incorporating R&D spillovers and economy-wide effects. *Conference Working Paper 15*. ASTI/IFPRI-FARA Conference, Accra, Ghana, December 5-7, 2011
13. Ecker, J., C. Breisinger, C. McCool, X. Diao, J. Funes, **L. You**, B. Yu. 2010. Assessing Food Security in Yemen: An Innovative Integrated, Cross-Sector, and Multilevel Approach. *IFPRI Discussion Paper 00982*, International Food Policy Research Institute, Washington, DC, USA
14. **You, L.**, C. Ringler, G. Nelson, U. Wood-Sichra, R. Robertson, S. Wood, Z. Guo, T. Zhu, Y. Sun. 2010. What is the irrigation potential for Africa?: A combined biophysical and socioeconomic approach. *IFPRI Discussion Paper 993*. International Food Policy Research Institute (IFPRI), Washington, D.C. Revised and resubmitted to Food Policy
15. Dorosh, P., H. Wang, **L. You**, and E. Schmidt. 2010. Crop Production and Road Connectivity in Sub-Saharan Africa: A Spatial Analysis. *Policy Research Working Paper 5385*, African Region, The World Bank Group, Washington, USA. Revised and resubmitted to Agricultural Economics
16. Yu, Bingxin; Liu, Fengwei; **You, L.** 2010. Dynamic agricultural supply response under economic transformation : A case study of Henan province. *IFPRI Discussion Paper 987*. International Food Policy Research Institute (IFPRI), Washington, D.C. Revised and resubmitted to American Journal of Agricultural Economics
17. Yu, B., **L. You.**, S. Fan. 2010. Toward a Typology of Food Security in Developing Countries. *IFPRI Discussion Paper 00945*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to China Agricultural Economic Review
18. Notenbaert, An, M. Herrero, R. Kruska, **L. You**, S. Wood, P.Thornton, and A. Omolo. 2009. Classifying livestock production systems for targeting agricultural research and development in a rapidly changing world. *Discussion Paper 19*. Nairobi, Kenya: International Livestock Research Institute. <http://hdl.handle.net/10568/589>
19. Ulimwengu, J., J. Funes, D. Headey, **L. You**. 2009. Paving the way for development? The Impact of Transport Infrastructure on Agricultural Production and Poverty Reduction in the Democratic Republic of Congo. *IFPRI Discussion Paper 00944*, International Food Policy Research Institute, Washington, DC, USA
20. **You, L.**, C. Ringler, G. Nelson, U. Wood-Sichra, R. Robertson. S. Wood, G. Zhe, T. Zhu, and Y. Sun. 2009. Torrents and Trickle: Irrigation Spending Needs In Africa. *Background Paper 9, African Infrastructure Country Diagnostics*, The World Bank Group, Washington, USA. Revised and resubmitted to Food Policy
21. Dorosh, P., H. Wang, **L. You**, and E. Schmidt. 2009. Crop Production and Road Connectivity in Sub-Saharan Africa: A Spatial Analysis. *Working Paper 19, African Infrastructure Country Diagnostic*, The World Bank Group, Washington, USA. Revised and resubmitted to Agricultural Economics
22. Nin-Pratt, A., M. Johnson, E. Magalhaes, X. Diao, **L. You**, J. Chamberlin. 2009. Priorities for Realizing the Potential to Increase Agricultural Productivity and Growth in Western and Central Africa. *IFPRI Discussion Paper 876*, International Food Policy Research Institute, Washington, DC, USA. Revised and published in an IFPRI monograph.

23. Johnson, M., R. Birner, J. Chamberlin, X. Diao, S. Fan, A. Nin-Pratt, D. Resnick, **L. You**, B. Yu. 2008. Regional Strategic Alternatives for Agriculture-led Growth and Poverty Reduction in West Africa. *ReSAKSS Working Paper No. 22*, International Food Policy Research Institute, Washington, DC, USA
24. **You, L.**, M. Johnson. 2008. Exploring Strategic Priorities for Regional Agricultural R&D Investments in East and Central Africa. *IFPRI Discussion Paper 776*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Agricultural Economics
25. **You, L.** 2008. A Tale of Two Countries: Spatial and Temporal Patterns of Rice Productivity in China and Brazil. *IFPRI Discussion Paper 758*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to China Economic Review
26. **You, L.** 2008. A Tale of Two Countries: Spatial and Temporal Patterns of Rice Productivity in China and Brazil. *WIDER Research Paper 2008/30*, World Institute for Development Economics Research (WIDER), Helsinki, Finland
27. Benin, S. and **L. You**. 2007. Benefit-Cost Analysis of Uganda's Clonal Coffee Replanting Program: An Ex-Ante Analysis. *IFPRI Discussion Paper 744*, International Food Policy Research Institute, Washington, DC, USA
28. **You, L.**, S. Wood, U. Wood-Sichra. 2007. Generating plausible crop distribution and performance maps for Sub-Saharan Africa using a spatially disaggregated data fusion and optimization approach. *IFPRI Discussion Paper 720*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Agricultural System
29. **You, L.** and X. Diao. 2006. Assessing potential impact of avian influenza on poultry in West Africa –A spatial equilibrium model analysis. *DSG Discussion Paper 40*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Journal of Agricultural Economics
30. **You, L.**, M. Rosegrant, C. Fang and S. Wood. 2005. Impact of global warming on Chinese wheat productivity. *EPTD Discussion Paper 143*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Agricultural and Forest Meteorology.
31. Shiferaw, B., S. Silim, G. Muricho, P. Audi. J. Mligo, S. Lyimo, **L. You**, J. Chistiansen. 2005. Assessment of the adoption and impact of improved pigeon pea varieties in Tanzania. *Working Paper Series no.21*, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India. Revised and resubmitted to Agricultural Economics
32. **You, L.** and J. Chamberlin. 2004. Spatial analysis of sustainable livelihood enterprises of Uganda cotton production. *EPTD Discussion Paper 121*, International Food Policy Research Institute, Washington, DC, USA.
33. Wood, S., **L. You**, and X. Zhang. 2004. Spatial patterns of crop yields in Latin America and Caribbean. *EPTD Discussion Paper 124*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Latin American Journal of Economics

34. **You, L.** and S. Wood. 2004. Assessing the spatial distribution of crop production using a cross-entropy method. *EPTD Discussion Paper 126*, International Food Policy Research Institute, Washington, DC, USA. Revised and resubmitted to Agricultural Systems
35. Johnson, M., D. Resnick, S. Bolwid, J. Chamberlin, **L. You**, S. Wood, P. Hazell. 2004. Strategic analysis and knowledge support system for rural development strategies in Sub-Saharan Africa. *DSGD Discussion Paper 14*, International Food Policy Research Institute, Washington, DC, USA
36. **You, L.** and S. Bolwig. 2003. Alternative growth scenarios for Uganda coffee to 2020. *EPTD Discussion Paper No.98*. International Food Policy Research Institute, Washington, DC. Revised and resubmitted to Development in Practice.

### Datasets

1. Anderson, W., W. Baethgen, F. Capitanio, P. Ciais, G. Rocca da Cunha, L. Goddard, B. Schauburger, K. Sonder, G. Podesta, M. van der Velde, **L. You**, and Y. Ru. 2022. Twentieth Century Crop Statistics, 1900-2017. Palisades, New York: NASA Socioeconomic Data and Applications Center (SEDAC). <https://doi.org/10.7927/tmsp-sg82>. Accessed 10/28/2022
2. International Food Policy Research Institute, 2020, "Spatially-Disaggregated Crop Production Statistics Data in Africa South of the Sahara for 2017", <https://doi.org/10.7910/DVN/FSSKBW>, Harvard Dataverse, V2
3. International Food Policy Research Institute, 2020, "Global Spatially-Disaggregated Crop Production Statistics Data for 2010 Version 2.1", <https://doi.org/10.7910/DVN/PRFF8V>, Harvard Dataverse, V4
4. **You, L.**; Wood-Sichra, Ulrike; Fritz, Steffen; See, Linda; Koo, Jawoo, 2015, "Global Spatially-Disaggregated Crop Production Statistics Data for 2005", <http://dx.doi.org/10.7910/DVN/DHXBJX>, Harvard Dataverse, V2
5. **You, L.**, U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 v2.0. October 27, 2015. Available from <http://mapspam.info>
6. **You, L.**, S. Wood, U. Wood-Sichra, Z. Guo, and J. Koo. 2008. Spatial Production Allocation Model (SPAM) 2000 v3.0.7. April 7, 2008. Available from <http://mapspam.info>
7. Fritiz, S., L. See, I. McCallum, **L. You**, et al.. 2015. Global hybrid cropland 2005 v1.5. March 3, 2015, Available from [www.geo-wiki.org](http://www.geo-wiki.org).