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CURRENT APPOINTMENT

Professor and Crawford Chair in Agricultural Economics
Crawford School of Public Policy, CAP
Australian National University

Feb. 2024 to Present

PREVIOUS APPOINTMENTS

Professor (Tenured Full)
School of Advanced Agricultural Sciences
Peking University

July 2021 to Jan. 2024

Associate Professor
School of Advanced Agricultural Sciences
Peking University, P. R. China

Dec. 2016 to Jun. 2021

Senior Economist (Executive Level 2)
Farm Survey and Productivity Section
Australian Bureau of Agricultural and Resource Economics and Sciences, Australia

Sep. 2010 to Dec. 2016

Principal Economist (Executive Level 1)
Farm Survey and Productivity Section
Australian Bureau of Agricultural and Resource Economics and Sciences, Australia

Sep. 2008 to Aug. 2010

Research Economist
Farm Survey and Productivity Section
Australian Bureau of Agricultural and Resource Economics and Sciences, Australia

Jan. 2008 to Aug. 2008

ARC Postdoctoral/Research Fellow
Australian National University, Australia

Apr. 2006 to Dec. 2007

EDUCATION

Australian National University, Australia Ph.D. in Economics	2003 to 2006
Thesis: <i>Openness to Trade and the Determination of Employment: An Application of Two-sector Search Model with Trade Adjustment</i> , Supervisory Panel: Ligang Song (Chair), Peter Drysdale, Christopher Findlay, and Guillaume Rocheteau.	
Nankai University, P. R. China M.A. in International Economics	1999 to 2002
Nankai University, P. R. China B.A. in International Economics	1995 to 1999

BIOGRAPHY

I am currently a Professor and Crawford Chair in Agricultural Economics, Crawford School of Public Policy, Australian National University. I also serving as the President of the East Asia branch of the Australasian Agricultural and Resource Economics Society (AARES), the former Vice-President of the Asian Society of Agricultural Economists (ASAE) and a Co-Editor of the Australian Journal of Agricultural and Resource Economics (AJARE). My research interest includes science and technology policies, agricultural productivity, rural transformation and agricultural sustainable development, climate change and its impact on global agriculture, and agricultural commodity trade and computable general equilibrium analysis. Since 2011, I have published around 50 journal articles including many in top-tier journals such as: **American Journal of Agricultural Economics; Energy Economics; Journal of International Money and Finance; Canadian Journal of Economics; Review of Income and Wealth; World Development; and Australian Journal of Agricultural and Resource Economics**. I also teach a number of courses for both undergraduates and graduates, including advanced agricultural economics, managerial economics and quantitative international economics at Peking University and microeconomics and macroeconomics at the Hong Kong Polytech University. Finally, I have also been actively collaborating with leading academics and institutions including ERS-USDA, OECD and IFPRI etc.

OTHER APPOINTMENTS

Vice President, Asian Society of Agricultural Economists (ASAE)	2019 to present
President of East Asian Branch and Council Member, Australasian Agricultural and Resource Economic Society (AARES)	2019 to present
Co-Editor, Australian Journal of Agricultural and Resource Economics, Wiley Ltd., ISSN 1467-5283 (AJARE)	2018 to present
Associate Editor, Journal of Productivity Analysis, Springer Ltd., ISSN 1573-0441 (JPA)	2022 to present
Global Agricultural Productivity Analysis Group Member, Economic Research Service, US Department of Agriculture/ World Bank/ International Food Product Research Institute	2013 to present 2012 to present
Executive Committee Member, Chinese Economic Society in Australia (CESA)	
Honored Professor, School of Economics, the Nankai University, P. R. China	

Courses, Textbooks

Advanced Agricultural Economics, Peking University	2018 to present
Management Economics (Undergraduates), Peking University	2017 to present
Future Agricultural Theory and Practice, Peking University	2022 to present
Quantitative International Economy and Global Agricultural Trade, Peking University	2017 to 2018
Frontier Lecture Series on Agricultural Economics, Peking University	2017 to 2018
Microeconomics, Macroeconomics and Management Economics, the Hong Kong Polytech University	2011 to 2015
CCAP Agricultural and Forestry Economics & Management Textbooks, School of Advanced Agricultural Studies, Peking University	

FIELDS OF INTEREST

Science and technology policies, agricultural productivity, rural transformation and agricultural sustainable development, climate change and its impact on global agriculture, agricultural commodity trade and computable general equilibrium analysis.

AWARDS

Australia Day Innovation Award (Ref: 2014/26493E1) (January 2015)
Australia Day Achievement Award (Ref: 2014/26493E2) (January 2015)
Australia Day Medallion (January 2015)
Scholar of the Year, Youth Work Committee, Chinese Association of Agricultural Economics (2018)
Annual Outstanding Director of Class, Peking University (2020-2021)

PUBLICATION

Career 10 Best

- Y. Sheng, Y. Zhao, Q. Zhang, W. Dong and J. Huang (*), 2022. “Boosting rural labor off-farm employment through urban expansion in China”, World Development 151(3): 105727. **5-year Impact Factor: 4.749.**
- R.G. Chambers, S. Pieralli, Y. Sheng (*), 2020, “The Millennium Droughts and Australian Agricultural Productivity Performance: A Nonparametric Analysis”, American Journal of Agricultural Economics 102(5): 1383-1403. **5-year Impact Factor: 3.442.**
- Y. Sheng, J. Ding and J. Huang (*), 2019, “The Relationship between Farm Size and Productivity in Agriculture: Evidence from the Maize Farms in China”, American Journal of Agricultural Economics 101(3): 790-806. **5-year Impact Factor: 3.442.**
- Y. Sheng (*) and W. Chancellor, 2019, “Exploring the relationship between farm size and productivity: Evidence from the Australian grains industry”, Food Policy 84(4): 196-204. **5-year Impact Factor: 5.341.**
- Y. Sheng, X. Shi (*) and B. Su, 2018, “Re-analyzing the Economic Impact of a Global Bunker Emissions Charge”, Energy Economics 74: 107-119. **5-year Impact Factor: 5.790.**
- Y. Sheng, Y. Wu, X. Shi (*) and D. Zhang, 2015, “Energy Trade Efficiency and Its Determinants: A Malmquist Index Approach”, Energy Economics 50: 306-314. **5-year Impact Factor: 5.790.**
- Y. Sheng, X. Shi (*) and D. Zhang, 2014. “Economic growth, regional disparities and energy demand in China: Implication for energy market integration in East Asia”, Energy Policy 71:31-39. **5-year Impact Factor: 5.693.**
- X. Xu (*) and Y. Sheng, 2012, “Productivity Spillovers from Foreign Direct Investment: Firm-level evidence from China”, World Development 40(1): 62-74. **5-year Impact Factor: 4.749.**

Y. Sheng and X. Xu(*), 2011, “Real Exchange Rate, Productivity and Labour Market Rigidities”, Journal of International Money and Finance 30(3): 587-603. **5-year Impact Factor: 2.448.**

Y. Sheng and X. Xu (*), 2010, “A Generalized Heckscher-Ohlin-Samuelson Model with Search”, Canadian Journal of Economics 43(3): 795-815. **5-year Impact Factor: 0.810.**

RESEARCH PUBLICATIONS

I have a total of 111 publications including 49 journal articles, 18 book chapters, and 44 official research/technical reports/online working papers published by Chinese/Australian government or other international agencies. The total citation from Google Scholar is 2399 (SSCI: 419/other404; SCI337/other328) and the H index is 17.

PEER- REVIEWED PUBLICATIONS

V. E. Ball, C. S. J. Mesonada, C. S. Mantejga, K. Ericson and Y. Sheng (*), 2023. “Technology catch-up in agriculture among advanced economies”, Australian Journal of Agricultural and Resource Economics 67(1):18-37.

J. Huang, Hu, R., Yi, H., and Sheng, Y.(*), 2022. “Development Visions and Policies of China’s Agriculture by 2050”, Strategic Study of CAE 24(1):11-19.

J. Huang, Xie, W.(*), Wang, X., and Hou, L., 2022. “Trends of Global Agriculture and Prospects of China’s Agriculture Toward 2050”, Strategic Study of CAE 24(1):29-37.

S. Fan, Long, W., Feng, X.(*), Si, W. and Sheng, Y., 2022. “China’s Plan for the United Nations Food Systems Summit”, Issues in Agricultural Economy (03):4-16. doi:10.13246/j.cnki.iae.2022.03.003. (In Chinese)

W. Wei, Q. Cui, Y. Sheng (*), 2022. “Dual carbon goals and the impact on future agricultural development in China: A general equilibrium analysis”, China Agricultural Economic Review 14(4): 664-685. Available online at: <https://www.emerald.com/insight/publication/issn/1756-137X>

Y. Sheng (*), V. E. Ball, K. Erickson, C. S. J. Mesonada, 2022. “Cross-country agricultural TFP convergence and capital deepening: Evidence for induced innovation from 17 OECD countries”, Journal of Productivity Analysis 58(2022): 185-202. Available online at: <https://doi.org/10.1007/s11123-022-00646-z>

K. Huang, B. Chen, M. Chen and Y. Sheng (*), 2022. “Assessing impact of the COVID-19 pandemic on China’s TFP growth: Evidence from region-level data in 2020”, Economic Analysis and Policy 75(2022): 362-377. Available online at: <https://doi.org/10.1016/j.eap.2022.05.0160313-5926>

Y. Sheng, Y. Zhao, Q. Zhang, W. Dong and J.K. Huang (*), 2022. “Boosting rural labor off-farm employment through urban expansion in China”, World Development 151(3): 105727. Available online at: <https://www.sciencedirect.com/science/article/pii/S0305750X21003429?via%3Dihub> .

Y. Sheng, S. Zhao and S. Yang (*), 2021 “Weather shocks, adaptation and agricultural TFP: A cross-region comparison of Australian Broadacre farms”, Energy Economics 101, available at <https://doi.org/10.1016/j.eneco.2021.105417>.

Y. Sheng, Ding, J., and J.K. Huang (*), 2021. “Farming on an Optimum Scale from the Yield and Profit Perspective: Evidence from Grain Production in Northeast and North China”, Journal of Agro-Forestry Economics and Management 20(01):19-28

R. Chambers, S. Pieralli, Y. Sheng (*), 2020. “The Millennium droughts and Australian agricultural productivity performance: A nonparametric analysis”, American Journal of Agricultural Economics 102(5): 1383-1403.

X. Shi, K. Wang (*), Y. Shen, Y. Sheng and Y. Zhang, 2020. “A permit trading scheme for facilitating energy transition: A case study of coal capacity control in China”, Journal of Cleaner Production 256: 120472.

J. Huang, S.Rozelle, X. Zhu, S. Zhao and Y. Sheng(*), 2019. “Agricultural and rural development in China during the past four decades: An introduction”, Australian Journal of Agricultural and Resource Economics 64(1):1-13.

Y. Sheng (*), W. Chancellor and T. Jackson, 2019. “Deregulation reforms, resource reallocation and aggregate productivity growth in the Australian dairy industry”, Australian Journal of Agricultural and Resource Economics 64(2): 477-504.

Sheng, Y., X. Tian (*), W. Qiao and C. Peng, 2019. “Measuring agricultural total factor productivity in China: Pattern and drivers over the period 1978-2016”, Australian Journal of Agricultural and Resource Economics 64(1): 82-103.

- Q. Yi, M. Chen, Y. Sheng (*) and J. Huang, 2019. "Mechanization services, farm productivity and institutional innovation in China", China Agricultural Economic Review 11(3): 536-554.
- Y. Sheng, J. Ding and J. Huang (*), 2019. "The relationship between farm size and productivity in agriculture: Evidence from the maize farms in China", American Journal of Agricultural Economics 101(3): 790-806.
- Y. Sheng and X. Xu (*), 2019. "Estimating impacts of sustained droughts on agricultural productivity in Australia: Evidence from an international comparison", Economic Modelling 76(1): 182-191.
- Y. Sheng (*) and W. Chancellor, 2019. "Exploring the relationship between farm size and productivity: Evidence from the Australian grains industry", Food Policy 84(4): 196-204.
- Y. Sheng (*) and L. Song, 2019. "Agricultural production and food consumption in China: A long-term projection", China Economic Review 53(1): 15-29.
- Y. Sheng (*), P. Drysdale and C. Chen, 2019. "Economic growth in China and its potential impact on Australia-China bilateral trade: A projection for 2025 based on the CGE analysis", Singapore Economic Review 64(4): 839-862.
- J. Wang, Xie, W., Wang, X., Hou, L., Zhou, H., and Liu, X. (2019). Modern Agricultural Transformation and Trend of Food Supply and Demand in China. Strategic Study of CAE, 2019, 21(5):1-9.
- Y. Sheng, X. Shi (*) and B. Su, 2018. "Re-analyzing the economic impact of a global bunker emissions charge", Energy Economics 74: 107-119.
- Y. Sheng (*), T. Jackson and K. Lawson, 2018. "Evaluating the benefits from transport infrastructure in agriculture: A hedonic analysis of farm land prices", Australian Journal of Agricultural and Resource Economics 62(2): 237-255.
- Y. Sheng, T. Jackson, S. Zhao (*) and D. Zhang, 2017. "Measuring output, input and total factor productivity in Australian agriculture: An industry-level analysis", Review of Income and Wealth 63(s1): s169-s193.
- Y. Sheng (*), T. Jackson and P. Gooday, 2017. "Resource reallocation and its contribution to productivity growth in Australian broadacre agriculture", Australian Journal of Agricultural and Resource Economics 61(1):56-75.
- E. Ball, S. Cahill, C. S. Mesonada, R. Nehring and Y. Sheng (*), 2016. "Comparisons of capital input in OECD agriculture, 1973-2011", Review of Economics and Finance 2016(6): 25-48.
- Y. Sheng (*), J. D. Mullen and S. Zhao, 2016. "Has growth in productivity in Australian broadacre agriculture slowed? A historical view", Annals of Agricultural & Crop Sciences 1(3): 1001-1009.
- Y. Sheng (*), A. Davidson, K. Fuglie, and D. Zhang, 2016. "Input substitution, productivity performance and farm size", Australian Journal of Agricultural and Resource Economics 60(3): 327-347.
- Y. Sheng (*), E. Ball and K. Nossal, 2015. "Comparing Agricultural Total Factor Productivity between Australia, Canada, and the United States, 1961-2006", International Productivity Monitor 38 (3): 38-59.
- D. Zhang, X. Shi (*) and Y. Sheng, 2015. "Comprehensive measurement of energy market integration in East Asia: An application of dynamic principal component analysis", Energy Economics 52: 299-305.
- Y. Sheng, Y. Wu, X. Shi (*) and D. Zhang, 2015. "Energy trade efficiency and its determinants: A Malmquist index approach", Energy Economics 50: 306-314.
- D. Zhang, C. Chen (*), Y. Sheng, 2015. "Public investment in agricultural R&D and extension: an analysis of the effects on Australian broadacre productivity", China Agricultural Economic Review 7(1): 86-101.
- Y. Sheng (*), S. Zhao, K. Nossal and D. Zhang, 2014. "Productivity and farm size in Australian agriculture: Reinvestigating the returns to scale", Australian Journal of Agricultural and Resource Economics 59(1):16-38.
- Y. Sheng, C. Tang and X. Xu (*), 2014. "The impact of ACFTA on PRC-ASEAN trade: Estimates based on an extended gravity model for component trade", Applied Economics 46(19): 2251-2263.
- Y. Sheng and X. Xu (*), 2014. "Terms of trade shocks and endogenous search unemployment: A two-sector model with non-traded goods", Pacific Economic Review 46(19):201-215.
- Y. Sheng, X. Shi (*) and D. Zhang, 2014. "Economic growth, regional disparities and energy demand in China: Implication for energy market integration in East Asia", Energy Policy 71:31-39.
- Y. Sheng and L. Song (*), 2013. "Re-estimation of firms' total factor productivity in China's iron and steel industry", China Economic Review 24(3): 177-188.

- Y. Sheng and X. Shi (*), 2013. "Energy market integration and equitable growth across countries", Applied Energy 104: 319-325.
- C. Chen, Y. Sheng, and C. Findlay (*), 2013. "Impact of FDI on domestic firms' exports in China", Review of International Economics 21(5):841-856.
- X. Xu and Y. Sheng (*), 2012. "Productivity spillovers from foreign direct investment: Firm-level evidence from China", World Development 40(1):62-74.
- Y. Sheng and X. Xu (*), 2012. "Are FDI spillovers regional? Firm-level evidence from China", Journal of Asian Economics 23(3): 244-258.
- Y. Sheng and X. Xu (*), 2011, "Real exchange rate, productivity and labor market frictions", Journal of International Money and Finance 30(3): 587-603.
- Y. Sheng and X. Xu (*), 2010. "Trade theorems with search unemployment", Canadian Journal of Economics 43(3): 795-815.
- Y. Sheng and L. Song (*), 2008. "Comparative advantage and Australia-China bilateral trade", Economic Papers 27(1): 41-56.
- L. Song, Y. Sheng and Y. Han, 2007, "Main Factor Analysis of the Impact of Reform on China's Economic Growth", China Labor Economics (2): 3-23. (In Chinese)
- Y. Sheng (*), 2005. "Measurement of Trade Liberalization and Distortion in China's Factor Market", The Journal of World Economy (6):56-64. (In Chinese)
- Y. Sheng (*), 2004. "Openness, Trade Policies, and Economic Growth in Developing Countries: A Cross border Empirical Analysis", Nankai Economic Studies (03):59-63 (In Chinese)
- Y. Sheng (*), 2002. "Impact of APEC trade liberalisation on Sino-Australian bilateral trade", Pacific Economic Papers: No.330, Canberra, Australia.

BOOK CHAPTERS

- S. Fan, Huang, J., Zhang, F., Zhao, W., Song, H., Nie, F., Sheng, Y., Wang, J., Bi, J. and Cong, W. 2023. "Transforming Chinese food systems for both human and planetary health", *Science and Innovations for Food Systems Transformation*, 779.
- S. Rao, X.S. Liu and Y. Sheng, 2021. "China's agricultural trade: A global comparative advantage perspective", *China Update 2021: China's Challenges in Moving towards a High-income Economy*, L. Song and Y. Zhou (eds.), Chapter 3, the ANU Press.
- Y. Zhao, M. Chen and Y. Sheng, 2019. "Off-farm employment in rural China and the hukou system", *Chinese Economic Transformation: Views from Young Economists*, L. Song, Y. Zhou and L. Hurst (eds.), Chapter 5, the ANU Press.
- Y. Sheng, L. Song and Q. Yi, 2017. "Mechanization outsourcing and agricultural productivity for small farms: Implications for rural land reform in China", L. Song, R. Garnaut, F. Cai and L. Johnston (eds.), *China's New Sources of Economic Growth*, Chapter 13, 2017, the ANU Press.
- Y. Sheng and X. Shi, 2013. "Energy market integration and economic convergence: Implication for East Asia" Y. Wu and S. Kimura (eds.) *EMI in East Asia Submit Countries*, the Elder Elgar Press, London.
- Y. Sheng and L. Song, 2013. "China's iron and steel industry performance: Total factor productivity and its determinants", L. Song and H. Liu (eds.) *The Chinese Steel Industry's Transformation*, the Elder Elgar Press, London.
- J. Golley, Y. Sheng and Y. Zheng, 2012. "Economic growth, regional disparities and core steel demand in China", L. Song and H. Liu (eds.) *The Chinese Steel Industry's Transformation: Structural Change, Performance and Demand on Resources*, the Elder Elgar Press, London.
- Y. Sheng and L. Song, 2012. "The backward and forward linkages of the iron and steel industry in China and their implications" L. Song and H. Liu (eds.), *The Chinese Steel Industry's Transformation: Structural Change, Performance and Demand on Resources*, the Elder Elgar Press, London.
- Y. Sheng and L. Song, 2012. "China's iron ore import demand and its determinants: A time-series analysis", L. Song and H. Liu (eds.), *The Chinese Steel Industry's Transformation: Structural Change, Performance and Demand on Resources*, the Elder Elgar Press, London.

- Y. Sheng and L. Song, 2012. "The technical efficiency of China's large and medium iron and steel enterprises: A firm-level analysis", L. Song and H. Liu (eds.), *The Chinese Steel Industry's Transformation: Structural Change, Performance and Demand on Resources*, the Elder Elgar Press, London.
- S. Zhao, Y. Sheng and E. Gray, 2012. "Productivity of the Australian broadacre and dairy industries: Concept, methodology and data", K. Fuglie, S. Wang and E. Ball (eds.) *Global Agricultural Productivity Analysis*, the CABI Publishing House, UK.
- H. McKay, L. Song and Y. Sheng, 2010. "China's metal intensity in comparative perspective", R. Garnaut, L. Song and W. T. Woo (eds.) *The Next 20 Years of Reform and Development*, the Edward Elgar Publishing.
- Y. Sheng and L. Song, 2009. "Linking economic development with demand for energy: A discontinuous estimation of energy demand Elasticity", C. Chen (ed). *China's Integration with the Global Economy*, the Edward Elgar Publishing Ltd, Cheltenham, UK.
- Y. Sheng and L. Song, 2007. "China's demand for energy: A global perspective", R. Garnaut and L. Song (eds.), *China Linking Markets for Growth*, the Asia Pacific Press, Australian National University, Canberra.
- Y. Sheng, 2006. "Job matching efficiency in urban China: 1996-2003", Yanrui Wu (ed.) *Economics Transition, Growth and Globalization in China*, the Edward Elgar Publishing, Cheltenham, England.
- Y. Sheng, 2005. "Rapid urbanization and implications for growth in China", R. Garnaut and L. Song (eds.) *The China Boom and Its Discontents*, the Asia Pacific Press, Australian National University.
- Y. Sheng and L. Song, 2004. "Privatization, incentive effects and sustainability of growth", R. Garnaut and L. Song (eds.) *China: Is Rapid Growth Sustainable?*, the Asia Pacific Press, Australian National University.
- Y. Sheng and L. Song, 2003. "Regional income disparities and conditional convergence in China", R. Garnaut and L. Song (eds.), *Reducing Regional Disparities in China*, Chinese Academy of Social Sciences, Beijing.

PUBLISHED RESEARCH REPORTS

- S. Fan, J. Huang, F. Zhang, W. Zhao, H. Song, F. Nie, Y. Sheng, J. Wang, J. Bi and W. Cong, 2021. "Transforming Chinese Food Systems for Both Human and Planetary Health", *Food Systems Summit Brief*, the United Nations.
- E. Ball, JP, Batraut, R. Nering, S. Cahil and Y. Sheng, 2016. "Comparison of capital stock and services in agriculture" OECD Statistical Division, Working Papers 2016/01.
- Y. Sheng and T. Jackson, 2016. "Deregulation reforms and productivity growth of dairy industry in Australia", ABARES Research Technical Report, Canberra.
- K. Fuglie, T. Benton, Y. Sheng, J. Hardelin, K. Mondelaers, and D. Laborde, 2015. "G20 MACs White Paper: Metrics of Sustainable Agricultural Productivity", Submission to G20 MACs in Turkey.
- Y. Sheng and X. Xu. 2015. "How did severe droughts affect agricultural productivity in Australia: Evidence from an international comparison", ABARES Research Technical Report, Canberra.
- Y. Sheng and T. Jackson, 2015. "A manual for measuring total factor productivity in Australian agriculture", ABARES Research Technical Report, Canberra.
- Y. Sheng, T. Jackson and A. Davidson, 2015. "Resource reallocation and its contribution to productivity growth in Australian broadacre agriculture", ABARES Research Technical Report, Canberra.
- C. Gunning-Trant, Y. Sheng, P. Hamsheer, T. Gleeson and B. Moir, 2015. "What Indonesia wants: Analysis of Indonesia's food demand to 2050", ABARES Research Technical Report, Canberra.
- T. Jackson, K. Lawson and Y. Sheng, 2014. "Farm land prices and the value of infrastructure", ABARES Research Paper, Canberra.
- E. Gray, M. Oss-Emer, Y. Sheng, 2014. "Australian agricultural productivity growth: Past reforms and future opportunities", OECD TAD Working Paper, March 2014, Canberra, and OECD TAD Term of Reference.
- D. Zhang, X. Shi and Y. Sheng, 2014. "Enhanced measurement of energy market integration in East Asia: An application of dynamic principal component analysis", ERIA Working Paper Series 2014.
- P. Hamsheer, Y. Sheng, B. Moir, C. Gunning-Trant and D. Mobsby, 2014. "What India wants: Analysis of India's food demand to 2050", ABARES Research Technical Report, Canberra.

- P. Hamshere, Y. Sheng, B. Moir, F. Syed and C. Gunning-Trant, 2014. "What China wants: Analysis of China's food demand to 2050", ABARES Research Technical Report, Canberra.
- Y. Sheng, K. Nossal and E. Ball, 2013. "Comparing agricultural TFP between Australia, Canada and the United States", ABARES Research Technical Report, Canberra.
- Y. Sheng and K. Nossal, 2012. "Estimating total factor productivity (TFP) in the dairy industry with farm survey data: A proposed methodology for OECD countries", OECD TAD Term of Reference.
- Y. Sheng and X. Shi, 2011. "Energy market integration and economic convergence: Implications for East Asia". ERIA Working Paper Series 2011/09, Jakarta.
- Y. Sheng, J.D. Mullen and S. Zhao, 2011. "A turning point in agricultural productivity: Consideration of the causes", ABARES Technical Report, Canberra.
- Y. Sheng, S. Zhao and J.D. Mullen, 2011. "Public investment in agricultural R&D and its impact on Australian agricultural productivity", ABARES Technical Report, Canberra.
- Y. Sheng, E. Gray, J.D. Mullen and A. Davidson, 2011. "Public investment in agricultural R&D and extension: An analysis of the static and dynamic effects on Australian broadacre productivity", ABARES Technical Research Report, Canberra.
- Y. Sheng, H. C. Tang and X. Xu, 2011. "The impact of ACFTA on People's Republic of China-ASEAN trade: Estimates based on an extended gravity model for Component Trade", ADB Working Paper.
- N. Hughes, K. Lawson, A. Davidson, T. Jackson and Y. Sheng, 2011. "Productivity pathways: Climate-adjusted production frontiers for the Australian broadacre cropping industry", ABARES Technical Research Report, Canberra.
- P. Martin, P. Phillips, E. Gray, Y. Sheng, K. Nossal, M. Oss-Emer, A. Davidson, 2011. "Farm performance: Broadacre and dairy farms: 2008-09 to 2010-11", Australian Commodities, ABARES, Canberra.
- Y. Sheng, J. D. Mullen and S. Zhao, 2011. "Has growth in productivity in Australian broadacre agriculture slowed?" Paper submitted and accepted by the Australian Agricultural and Resource Economics Society Annual Conference, Adelaide Convention Centre, February 2010.
- Y. Sheng, S. Zhao and T. Jackson, 2010. "Productivity of the Australian broadacre and dairy industry: Concepts and methods", Paper presented at the Economic Measurement Workshop, University of New South Wales, 11 December 2009.
- Y. Sheng, J. H. Kee and S. Zhao, 2010. "Price paid index and its application in TFP estimation for Australian broadacre industries", ABARE Internal Research Paper, sponsored by DAFF.
- Y. Sheng, S. Zhao and J. H. Kee, 2009. "Exploring determinants of the total factor productivity in Australia's broadacre grain farms", Paper presented at the 38th Australian Conference of Economist, University of Adelaide, September 2009.
- Y. Sheng and S. Zhao, 2010. "Elasticity of substitution and TFP in Australian broadacre industry: 1977-78 to 2006-07", ABARE Internal Research Paper.
- Y. Sheng and S. Zhao, 2010. "Agricultural productivity and its determinants in Australian grain industry: A case study on broadacre farmers in 1989/1990-2003/2004". GRDC Research Report.
- Y. Sheng, K. Nossal and S. Zhao, 2010. "Total factor productivity estimation for the beef and slaughter lamb industries".
- Y. Sheng, S. Zhao and K. Nossal, 2010. "Productivity and farm Size in Australian agriculture: Reinvestigating the returns to scale", ABARE Internal Research Paper.
- Y. Sheng and X. Xu, 2010. "Trade potential between mainland China and Taiwan Strait", for the annual conference of PAFTAD 2009, website: <http://www.paftad.org/files/33/Xu%20&%20Sheng.pdf>.
- Y. Sheng and K. Nossal, 2009. "Grains outlook for 2009-10 and industry productivity" (With Katarina Nossal) Australian Commodity, November 2009.
- Y. Sheng, K. Nossal, S. Zhao and D. Gunasekera, 2009. "Productivity movements in Australian agriculture", Paper presented at the ABARE Outlook Conference, National Conventional Centre of Australia, 9 March 2009, Canberra, ACT, Australia.
- K. Nossal, Y. Sheng, S. Zhao, P. Kokic and R. Nelson, 2009. "Exploring the feasibility of an adaptive capacity index using ABS data", ABARES Research Report.
- Y. Sheng and L. Song, 2008. "The impact of reform on economic growth in China: A principal component analysis", Research Paper, No. 2008/12, UNU-WIDER, United Nation, Helsinki, Finland.

- Y. Sheng and X. Xu, 2008. “Economic growth and unemployment: An analysis on transitional dynamic”, ANU Conference Paper.
- “Policy Suggestions on Ensuring National Food Security and Promoting Farmers' Income Increase”, CCAP, 2021.(Policy Report In Chinese)
- “Strategies and Policies for Improving China's Agricultural Total Factor Productivity”, CCAP, submitted to the Central Office and State Office, 2020. (Policy Report In Chinese)
- “Strategic Deployment and Policy Suggestions for the “Two-Eight Pattern” of China's Planting Industry in the Next 30 Years”, CCAP, 2020. (Policy Report In Chinese)
- “Policy Suggestions for the Study of Medium and Long Term Agricultural Productivity Layout in China, submitted to the Central Propaganda Department”, CCAP, 2020. (Policy Report In Chinese)
- “Impact of COVID-19 on various industries from the perspective of rural labor migration and countermeasures”, CCAP, 2020.(Policy Report In Chinese)
- “Solving the problem of migrant workers returning to work is an urgent task for agricultural and rural work”, CCAP, 2020.(Policy Report In Chinese)
- “The impact of the COVID-19 on spring plowing in southern China and policy recommendations”, CCAP, 2020.(Policy Report In Chinese)
- “Judgment and Strategic Measures for the Current Situation of Food Security in China”, CCAP, submitted to CAE and the State Council of the Communist Party of China Central Committee, 2018.(Policy Report In Chinese)

WORKING PAPERS

- R. Chambers and Y. Sheng, 2021, “Genetically Modified Organisms and Agricultural Labor Productivity”, 10th ASAE International Conference Keynote Paper 2021.
- Y. Sheng, H. Deng and C. Li, 2021, “Impact of GMO revolution on agricultural TFP: A new global view”, AARES 2022 Conference Paper.
- Y. Sheng, X. Xu and S. Rozelle, 2019, “Market Fragmentation, Regional Monopoly and Resource Reallocation: Evidence from China's Iron and Steel Industry”, R&R by China Economic Review.
- Y. Sheng, E. Ball and X. Xu, 2018, “Cross-country Comparison of Agricultural Productivity: The Superlative versus the Quantity-based Approach”, submitted to AJARE.
- Y. Sheng and J. Huang, 2018, “Resource Reallocation and Cross-state Disparity in Labor Productivity of the US Agriculture: Revisit the Distribution of Farm Size”, mimeo.
- Y. Sheng, X. Meng and D. Zhang, 2018, “China’s Growth Miracle and Rural-to-Urban Migration: A Tale of ‘Big Push’”, mimeo.

INTERNATIONAL CONFERENCES & INVITED SPEECHES

- The 11th Asian Society of Agricultural Economists (ASAE) International Conference. Keynote Speech, Tokyo, Japan. March 17-20, 2023.
- 7th meeting of the OECD Network on Agricultural Total Factor Productivity and the Environment, OECD headquarters, Paris, 5-6 December 2022, and hybrid.
- “*Does BT Adoption Increase Aggregate Cotton Yield in China: Evidence from County-level Analysis*”
32nd Annual Conference of Chinese Economics Society Australia (CESA), the Australian National University, Canberra, Australia. 22-23 November 2022.
- China Update, July 2022, the Australian National University, Canberra, Australia.

The 10th ASAE International Conference, December 6-8, Beijing China.

EMG Workshop 2021, November 26, 2021- Online Event.

“Assessing Impact of the COVID-19 Pandemic on China’s TFP Growth: Evidence from Region-level Data in 2020” Conference on Rural Economic Transformation: Pathways to Inclusive and Sustainable Prosperity in Post-COVID-19 Asia. November 17-19, 2021.

28th Meeting of the OECD’s Farm Level Analysis Network (FLAN), 26-27 October 2021, 12h00-15h30 (Paris time), Meeting via remote connections.

6th meeting of the Network on Agricultural TFP and the Environment, 25 October 2021.

2021 ASAE Annual Meeting, August 13-18, 2021 through the Intradeo virtual platform.

China Update, July 2021, the Australian National University, Canberra, Australia.

“Evaluation of Alternative Methods for Estimating Capital Service: Geometric vs. Hyperbolic Depreciation”

5th meeting of the OECD Network on Agricultural Total Factor Productivity and the Environment, 27-28 May 2021, 12h00-15h45 (Paris time) , Meeting via remote connections.

“Measuring Depreciable Capital Input in OECD Agriculture”

4th meeting of the OECD Network on Agricultural Total Factor Productivity and the Environment, 29-30 October 2020, 12h00-15h00 (Paris time), Meeting via remote connections.

EMG Workshop 2019, December 5-6, 2019, Sydney Australia.

The OECD Expert Workshop on the EATFP in Agriculture, Maryland Univ. November 30- December 1, 2019.

3rd meeting of the Network on Agricultural TFP and the Environment, 30-31st October, 2019, University of Maryland.

China Update, July 2019, the Australian National University, Canberra, Australia.

“Current challenges and way forward for Chinese agriculture after 40 years of rural reforms”

IAMO Forum 2019, June 26, 2019.

“Cross-country Comparison of Agricultural TFP between 17 OECD Countries: 1973-2011”

2nd Meeting of the OECD Network on Agricultural Total Factor Productivity and the Environment. OECD Headquarters, Paris. 4 April - 5 April 2019.

AARES 2019, February 2019, Conventional Centre, Melbourne, Australia.

AARES 2018, February 2018, Conventional Centre, Adelaide, Australia.

China Update, July 2017, the Australian National University, Canberra, Australia.

EWEP Conference, June 2017, London School of Economics, London, UK.

Farm Size and Productivity Growth: An International Comparative Assessment

The USDA ERS Innovation Research Grant, 2-3 February 2017, 25 April 2016.

The 3rd Asian Modelling Workshop on Carbon Pricing and Investment towards Low Emissions: Uncertainties and Potential, ESI Workshop, National University of Singapore, 25-26 February 2016.

The OECD Expert Workshop on the EATFP in Agriculture: COP 21, OECD TAD/EVN/STD 14-15 December 2015, OECD Headquarter, Paris

Measurement of Agricultural Total Factor Productivity in Asian Countries, Asian Productivity Organization/World KLEMS 20-27 August 2015, Tehran, IR Iran.

Climate Change and Global Agricultural TFP, USDA-ERS and the US Farm Foundation 21-23 March 2015, Washington, D.C.

The OECD TAD/Farm Level Analysis Committee Annual Meeting, OECD, Paris. 3-4 November 2011, 9-11 May 2012, 2-3 July, 2014, 14-15 November 2015, 24-25, April 2016.

The Australian Agriculture and Resource Economics Society Annual Conference, Australia. 9-10 February, 2010, Adelaide; 7-9 February, 2011, Melbourne; 4-8 February, 2013, Sydney; 4-8 February, 2014, Port Macquarie,

The Economic Measurement Group Workshop, University of New South Wales, Coogee Beach, Sydney, Australia. 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015

The 32th IARIW International Conference, 21-24th, November, 2013, Sydney, Australia.

The Western American Economic International Biannual Conference, 16-18 March 2013, Tokyo, Japan.

The second World KLEMS Conference, 8-10 August 2012, the Harvard University, Boston, the USA.

The 16th World Productivity Congress and 2010 European Productivity Conference, 1-5 November 2010, Atalia, Turkey.

The Causes and Consequences of Global Agricultural Productivity Growth conference Global Productivity Conference, 11-12 May 2010, Washington D. C., USA.

The First Annual Conference of Hong Kong Institute of Monetary Authority, 9-11, January, 2010, IFC, Hong Kong.

The Global Agricultural Productivity Workshop, 3 September, 2009, University of Queensland, Australia.

The Australian Conference of Economists, 2-6 September, 2008, Gold Coast, Australia.

GRANTS

Project in past 5 years

2022.01-2025.12 Rural-urban Integration and Employment Transformation: Impact of Urbanisation and Industrialization on Off-farm Employment and Income in Rural China. National Natural Science Foundation of China, General Program (441,000/490,000¥), Principal Investigator: Y. Sheng, C. Peng, X. Liu, M. Chen, L. Su and H. Zhang.

2021- Understanding the Drivers of Successful and Inclusive Rural Regional Transformation: Sharing Experiences and Policy Advice in Bangladesh, China, Indonesia and Pakistan. Australian Center for International Agricultural Research (ACIAR)(1450,000¥)

2021.07-2022.06 The Impact of Urbanization and Industrialization on Rural Development: A Study Based on Shandong Province, Development Planning Department of the Ministry of Agriculture and Rural Affairs.(100,000¥)

2021.04-2021.12 Agricultural and Rural Development Strategy under the Construction of a New Development Pattern. Development Planning Department of the Ministry of Agriculture and Rural Affairs.(100,000¥)

2019.05-2019.12 The layout of agricultural productivity in China in the medium to long term. High end consulting project of Chinese Academy of Engineering (CAE) (150,000/600,000¥) Principal Investigator: J. Huang, J. Wang, Y. Sheng, X.Wang, W. Xie.

2019.01-2022.12 Exploring the Impact of Custom Service on Mechanization of Small Household Farms and Agricultural Productivity. National Natural Science Foundation of China, General Program (441,000/490,000¥) Principal Investigator: Y. Sheng, J. Ding, S. Min, Q. Cui, Q. Yi and X. Wang.

2018.12-2019.12 Tracking and Evaluation of the Objectives, Tasks, and Implementation Effectiveness of the Rural Revitalization Strategic Plan (2018-2022) National Development and Reform Commission(NDRC)(100,000/500,000¥) Principal Investigator: J. Huang, J. Wang, Y. Sheng, H. Yi, C. Liu, X. Luo, X.Wang, L. Hou, W. Xie.

2018.08-2019.09 Agricultural Policies for Integrating African Farmers with China. Bill and Melinda Gates Foundation (BMGF)(1110,000/6500,000¥) Principal Investigator: J. Huang, Y. Sheng.

2018.07-2019.12 The Impact of Urbanization on Rural Labor Employment. National Natural Science Foundation of China - Peking University Management Science Foundation.(150,000¥) Principal Investigator: Y. Sheng.

- 2018.01-2020.03 Global and Chinese Agricultural Development Trends and Prospects by 2050. Major Consulting Project of Chinese Academy of Engineering(CAE) - Topic 1 (150,000/1100,000¥) Principal Investigator: J. Huang, J. Wang, Y. Sheng, C.Liu, X.Wang, W. Xie, L. Hou.
- 2018.01-2020.03 China's agricultural development goals, strategic priorities, and policy recommendations by 2035 and 2050. Major Consulting Project of Chinese Academy of Engineering(CAE) - Topic 7 (500,000/1500,000¥) Principal Investigator: J. Huang, Y. Sheng, J. Wang, X.Wang, L. Hou, W. Xie.
- 2018.01-2020.12 The Transfer of Major Genetically Modified Special Technologies and the Competitiveness and Policies of the Technology Industry. The Ministry of Agriculture/Ministry of Science and Technology, major special projects(774,400/3300,000¥) Principal Investigator: J. Huang, J. Wang, Y. Sheng.
- 2017.11-2019.06 Measurement and International Comparison of Agricultural Productivity in China. Australian Government Department of Agriculture (544,300¥) Principal Investigator: J. Huang, Y. Sheng.
- 2017.09-2020.03 Rural Regional Transformation: Methodological Approaches, Policy Sequencing, and Achievements in Countries such as China, the Philippines, and Vietnam. International Fund for Agricultural Development (IFAD) (500,000/3500,000¥) Principal Investigator: J. Huang, Y. Sheng.
- 2017.08-2018.07 The Strategy and Policy of Agricultural and Rural Development in China in the New Era. The National Natural Science Foundation of China, Emergency Management Project(300,000/2000,000¥) Principal Investigator: J. Huang, J. Wang, Y. Sheng, C. Liu, X. Luo, H. Yi, X.Wang, L. Hou, W. Xie.

Previous Project

- 2015-2016 Productivity, Technology and Resource Allocation. Co-Principal Investigator, Hong Kong Government Competitive Research Grant (Hong Kong GRF).
- 2015-2017 the USDA ERS Innovation Research Grant: Farm Size and Productivity Growth: An International Comparative Assessment (USDA ERS).
- 2011-2016 International Comparison of Agricultural Productivity (USDA ERS, OECD, ABARES and RIRDC).
- 2012-2016 Elasticity of Substitution and Total Factor Productivity Growth in Australian broadacre agriculture (US Farm Foundation).
- 2009-2014 Energy Market Integration in East Asian Subit Region, Principal Investigator, ERIA Competitive Economic Research Grant, Economic Research Institute of Asia and ASEAN.
- 2010-2014 Regional Integration and Its Impacts on Trade in Asia, Principal Investigator, ADB Research Grant for Regional Integration, Asian Development Bank.
- 2009-2013 FDI, Productivity and Real Exchange Rate. Co-Principal Investigator, Central Research Grant, Hong Kong Polytechnic University.
- 2008-2012 Trade Theorems with Search Unemployment. Collaborate Investigator. Central Research Grant, Hong Kong Polytechnic University.
- 2007-2011 China's Industrialisation and Its International Resource Demand, Collaborate Investigator, ARC-Linkage Project, Australian Research Council.
- 2006-2007 Emerging Asian Regionalism: Ten Years after the Crisis, Collaborate Investigator, ADB Research Grant for Regional Integration, Asia Development Bank.
- 2002-2003 Survey on SOEs Privatisation in China, Collaborate Investigator, World Bank and China Economic and Trade Cooperation Department, IFC-World Bank.

MEDIA RELEASE

Sheng, Y. and Huang, K., 2022, "County Development from the Perspective of Rural Revitalization Strategy", Guangming Daily, 2022-12-26(06). (In Chinese)

Sheng, Y., 2022, Can aquaculture meet China's demand for food? East Asia Forum, 2022(4).

Live: Global food crisis – A foregone conclusion? Headline Buster, CGTV, Beijing, China. 11:00, 15-Sep-2022.

<https://news.cgtn.com/news/2022-09-14/Live-Global-food-crisis-A-foregone-conclusion--1djZeHhDsti/index.html>

Live: Global food crisis – Can a deal ensure Ukraine's grain is exported? The Point with Liu Xin, CGTV, Beijing, China. 11:30, Jul 20, 2022. <https://www.cgtn.com/tv/replay?id=cJAcEA>

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