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Science and Technology
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Academic Qualifications

2003-2006 **Doctor of Philosophy:** Deakin University, Australia/ Construction Management and Economics;
2001-2003 **Master:** Deakin University, Australia/ Commerce;
1989-1993 **Bachelor:** Wuhan University (1985), China/ Economics.

Working Experiences

2025.7-Present **Professor**/Macau University of Science and Technology;
2024.7-Present **Assistant Director**/Institute of Development Economics of Macau University of Science and Technology;
2011.7-2025.7 **Associate Professor**/Macau University of Science and Technology;
2019.6-2019.7 **Visiting Scholar**/University of Coimbra, Portugal;
2018.6-2018.7 **Visiting Scholar**/University of Cambridge, United Kingdom;
2008.9-2011.6 **Assistant Professor**/Macau University of Science and Technology;
2006.7-2008.8 **Associate Professor**/Zhongnan University of Economics and Law (211), China;
2006.1-2006.6 **Research Fellow**/Deakin University, Australia;
1993.6-2001.1 **Officer**/Bank of China, China.

Teaching Activities

Urban Economics; Real Estate Economics; Research Method; Investment; Fixed Income Securities; Finance; Corporate Finance.

Research Interests

Regional Economics; Energy Economics; Environmental Economics.

Selected Publications

Journal Articles

1. Li, X., & **Song, Y.*** (2025). What role does agriculture play in irrigation water footprint consumption? A perspective based on sectoral linkage and structural path. *Journal of Hydrology: Regional Studies*, 59, 102378. (SCIE, 2025; **JCR Q1**; IF:4.7 **TOP**)
2. Li, X., & **Song, Y.*** (2025). A novel assessment framework for colored-water footprint inequality in China. *Ecological Indicators*, 173, 113350. (SCIE, 2025 ; **JCR Q1**; IF:7.0, **TOP**)
3. Liang, Y., **Song, Y.***, & Chen, Z. (2025). Correlation effects, driving forces and evolutionary paths of cross-industry transfer of energy consumption in China: A new analytical framework. *Energies*, 18(12), 3128 (SCIE, 2025; **JCR Q3**; IF:3.2)
4. Chen, Z. & **Song, Y.*** (2024). A new structural analysis framework of energy consumption in China. *Journal of Cleaner Production*, 2024, 144464. (SCIE, 2023 ; **JCR Q1**; ABDC A; IF:9.7, **TOP**)
5. Lv, T., **Song, Y.***, & Chen, Z. (2024). China's inequality in urban and rural residential water consumption—A new multi-analysis system. *Water*, 17(1). (SCIE, 2023 ; **JCR Q2**; IF:3.0)
6. Lai, Y. & **Song, Y.*** (2024). Comparative analysis of CO₂ emission linkages of construction between China and the United States using structural path analysis. *Scientific Reports* 14(1): 26493. (SCIE, 2023; **JCR Q1**; IF:3.8)
7. Liu, Y., & **Song, Y.*** (2024). Does artificial ecosystem recharge make sense? Based on the coupled water orbit research framework. *Ecological Indicators*, 166, 112496. (SCIE, 2023 ; **JCR Q1**; IF:7.0, **TOP**)
8. Li, X., Li, Y., & **Song, Y.*** (2024). Labor linkages and flow paths of industry in China. *Heliyon*, 10(9), e30118. (SCIE, 2023 ; **JCR Q1**; IF:3.4)
9. Chen, Z., **Song, Y.***, Li, Y., & Li, Z. (2023). Assessing the contaminant reduction effects of COVID-19 pandemic in China, *Journal of Cleaner Production*, 424, 138887. (SCIE, 2022 ; **JCR Q1**; ABDC A; IF:11.1, **TOP**)
10. Chen, S., **Song, Y.***, & Gao, P. (2023). Environmental, social, and governance (ESG) performance and financial outcomes: Analyzing the impact of ESG on financial performance, *Journal of Environmental Management*, 345, 118829. (SCIE, 2023; **JCR Q1**; IF:9.78, **TOP**)
11. Li, Z., Lin, Y., **Song, Y.***, & Li, Z. (2023). Linkages and flow paths of energy consumption: Evidence from China's sectors. *Energy Reports*, 9, 4594-4603. (SCIE, 2022; **JCR Q2**; IF:4.937)
12. Wen, W., Li, Y., & **Song, Y.*** (2022). Assessing the “negative effect” and “positive effect” of COVID-19 in China. *Journal of Cleaner Production*, 375, 134080. (SCIE, 2021; **JCR Q1**; ABDC A; IF: 11.1, **TOP**)
13. Li, Z., Li, Z., & **Song, Y.*** (2022). Identification of key provinces and sectors for energy conservation in China: Linkage analyses based on the modified hypothetical extraction method. *Energy Strategy Reviews*, 44, 100998. (SCIE, 2021; **JCR Q1**; IF: 10.01, **TOP**)
14. Li, Z., & **Song, Y.*** (2022). Energy consumption linkages of the Chinese construction sector. *Energies*, 15(5), 1761. (SCIE, 2021; **JCR Q3**; IF: 3.252)
15. Hou, Z., **Song, Y.***, & Xin, W. (2022). COVID-19 shocks, monetary policy, and real estate price volatility: Analysis based on a dynamic stochastic general equilibrium perspective. *Scientific Programming*, 2022, 7625465. (SCIE, 2021; IF: 1.672)
16. Bai, Y., & **Song, Y.*** (2022). CNS: Research on regional evaluation and distribution characteristics of enterprise technological innovation capability based on internet of things and big data. *International Journal of Cooperative Information Systems*, 2022, 2150004. (SCIE, 2021; IF: 0.563)
17. Li, Z., **Song, Y.***, & LI, Z. (2022). Linkage analysis of FDI utilization based on hypothetical extraction method. *Technoeconomic & Management Research*, 05, 3-9.

18. **Song, Y., & LI, Y.** (2021). Measurement of linkages loss in China under COVID-19 epidemic. *Journal of Industrial Technological Economics*, 40(07), 150-160. **(CSSCI)**
19. Li, Z., **Song, Y.***, & Li, Y. (2021). Energy consumption linkage of construction industry in China based on hypothetical extraction method. *Ecological Economy*, 37(11), 78-85.
20. Deng, W., & **Song, Y.** (2020). Evaluation on economic growth effect of regional cooperation. *East China Economic Management*, 34(08), 64-75. **(CSSCI)**
21. Deng, W., **Song, Y.**, & Chen, X. (2019). Evaluation on the economic growth effect of the underdeveloped areas in Yangtze River Delta driving by regional integration —Empirical study based on DID model. *East China Economic Management*, 33(07), 14-20. **(CSSCI)**
22. Sun, Z., **Song, Y.***, & Lai, I. K. (2017). Assessing the impacts of labor force sustainability in terms of population ageing on the economic sustainability. *Sustainable Business, Management, and Economics*, 68.
23. Liu, J., & **Song, Y.*** (2017). The research on coupling coordination of Macao tourism, socioeconomic factors and ecological environment. *Journal of Macau University of Science and Technology*, 11(1&2), 91-99.
24. Sun, Z., & **Song, Y.*** (2016). The effect of demographic structure to China's investment: An dynamic analysis based on provincial panel data. *Journal of Macau University of Science and Technology*, 10(2), 40-49.
25. Li, W., **Song, Y.***, & Chen, S. (2015). The empirical analysis of the relationship between Chinese real estate prices and air pollution index. *Journal of Macau University of Science and Technology*, 9(2), 68-81.
26. Li, C., & **Song, Y.*** (2014). EMD-based event analysis of extreme events on silver price. *Information*, 17(2), 477. **(SCI)**
27. Chen, S., **Song, Y.***, & Sun, Y. (2014). Constructing of environmental total factor construction materials productivity measurement model of EU building industry. *Journal of Macau University of Science and Technology*, 8(2), 89-98.
28. Chen, S., **Song, Y.***, & Zheng, F. (2014). The Chinese city productivity of biophysical perspective: Based on the malmquist-luenberger analysis. *Journal of Macau University of Science and Technology*, 8(1), 67-76.
29. **Song, Y.**, & Li, Q. (2013). Environmental productivity growth in Chinese construction industry. *Advanced Materials Research*, 664, 19-22.
30. Lee, J., & **Song, Y.*** (2012). The study of the relationships of Macau real estate prices and macroeconomy. *Journal of Macau University of Science and Technology*, 6(1), 27-34.
31. Wu, I., **Song, Y.***, & Yi, F. (2011). A study of the impact of China's real estate related policy on h share stock price. *Journal of Macau University of Science and Technology*, 5(2), 61-68.
32. Wei, L., **Song, Y.***, & Liu, C. (2010). An event study of the effects of government relative policies on the Chinese real estate market. *Journal of Macau University of Science and Technology*, 4(2), 82-92.
33. **Song, Y.**, & Yi, F. (2009). Quality and technology levels analysis of Chinese construction material exports using the gravity model. *Information*, 12(6), 1217-1225. **(SCI)**
34. **Song, Y.**, Liu, C., & Langston, C. (2008). Exploring intersectoral linkages between real estate and construction. *International Journal of Construction Management*, 8(1), 73-85.
35. Li, Y., **Song, Y.***, & Liu, C. (2008). Exploring the increasing role of the real estate sector in the Chinese economy: 1997–2002. *Pacific Rim Property Research Journal*, 14(3), 279-297. **(ABDC C)**
36. Langston, C., **Song, Y.**, & Purdey, B. (2008). Perceived conditions of workers in different organizational settings. *Facilities*, 26(1/2), 54-67. **(ABDC B)**
37. **Song, Y.**, Liu, C., & Langston, C. (2007). Extending construction linkage measures by the consideration of the impact of capital. *Construction Management and Economics*, 24(11), 1207-1216. **(ABDC A)**
38. **Song, Y.**, & Liu, C. (2007). An input–output approach for measuring real estate sector linkages. *Journal of Property Research*, 24(1), 71-91. **(ABDC B)**
39. **Song, Y.**, Liu, C., & Langston, C. (2006). Linkage measures of the construction sector using the hypothetical extraction method. *Construction Management and Economics*, 24(6), 579-589. **(ABDC A)**
40. **Song, Y.**, Liu, C., & Langston, C. (2006). Linkage measures of the real estate sector considering the effect of capital. *International Journal of Strategic Property Management*, 10(3), 131-143. **(SSCI; ABDC B)**
41. **Song, Y.**, & Liu, C. (2006). The Australian construction linkages in the 1990s. *Architectural Science Review*, 49(4), 408-417.
42. **Song, Y.**, Liu, C., & Langston, C. (2005). A linkage measure framework for the real estate sector. *International Journal of Strategic Property Management*, 9(3), 121-143. **(SSCI; ABDC B)**

43. **Song, Y., & Liu, C.** (2005). Economic performance analysis of the Australian property sector using input-output tables. *Pacific Rim Property Research Journal*, 11(4), 412-425. (**ABDC C**)
 44. Liu, C., **Song, Y., & Langston, C.** (2005). Economic indicator comparisons of international real estate sectors using the OECD input-output database. *International Journal of Construction Management*, 5(1), 59-75.
 45. Liu, C., & **Song, Y.** (2005). Multifactor productivity measures of construction sectors using OECD input-output database. *Journal of Construction Research*, 6(02), 209-222. . (**ABDC C**)
 46. Liu, C., & **Song, Y.** (2004). Comparison of multifactor productivity indicators for real estate sectors using the OECD input-output database. *Pacific Rim Property Research Journal*, 10(4), 487-508. (**ABDC C**)
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Research Projects

2024-2025	Macao Fuel Market Research. Funded by Macao SAR Government Consumer Council. Principal Investigator . 230000 MOP.
2024-2025	Feasibility Study on Cooperation between Macao Honest Shops and Mainland Related Certifications. Funded by Macao SAR Government Consumer Council. Principal Investigator . 257000 MOP.
2024-2025	Study on the Equilibrium Degree of Water Pollutant Emissions based on Theil Index. Funded by Faculty Research Grants of Macau University of Science and Technology. Principal Investigator . 30000 MOP.
2023-2024	Study on the Emission Reduction Effects of Pollutants in Chinese Industries. Funded by Faculty Research Grants of Macau University of Science and Technology. Principal Investigator . 30000 MOP.
2022-2023	Analysis of Energy Consumption Relationships and Energy Flow Paths in Various Industries in China. Funded by Faculty Research Grants of Macau University of Science and Technology. Principal Investigator . 30000 MOP.
2021-2022	Measurement of Industry Linkage Loss Effects based on Weighted Hypothetical Extraction Method - A Case Study of China under the COVID-19 Pandemic. Funded by Faculty Research Grants of Macau University of Science and Technology. Principal Investigator . 30000 MOP.
2020-2021	Enterprise Diagnostic Model of Zhuhai Fuyin Group. Funded by Zhuhai Fuyin Group. Principal Investigator . 150000 RMB
2019-2020	Construction of Macao Gaming Industry Promotion and Pull Index from the Input-Output Perspective. Funded by Macao Foundation. Principal Investigator . 30000 MOP.

Book

- **Song, Y.** (2007). *An input-output based linkage measure framework*: Hubei People's Press.

Awards

- 2010: "Excellent Teaching Award" of Macau University of Science and Technology

Other Professional Activities

1. Member of the examination committee of MSB
2. Reviewers for journals such as Cities (Q1), Financial Innovation (Q1), Construction Management and Economics (ABDC A), American Journal of Climate Change (SCI), and Journal of Macau University of Science and Technology, etc.
3. Served as an off-campus doctoral supervisor at Deakin University in Australia.
4. Serving as an external doctoral reviewer of City University of Macau.
5. Serving as a director of the Macao Political and Economic Research Association and a member of several professional associations.