Stanford



Yingjie Li

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CONTACT INFORMATION

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Bio

ACADEMIC APPOINTMENTS

- Social Science Research Scholar, Woods Research Natural Capital Project

HONORS AND AWARDS

- Stanford Rising Environmental Leader, Stanford University (2025)
- NASA-MSU Professional Enhancement Award, NASA-MSU (2024)
- Stanford Data Science Spotlight Award, Stanford (2023)
- Dissertation Completion Fellowship, Michigan State University (2022)
- William W. and Evelyn M. Taylor Endowed Fellowship, Michigan State University (2021)
- Young Scientists Summer Program (YSSP) Fellowship, International Institute for Applied Systems Analysis (IIASA) (2021)
- Cloud Computing Fellowship, Michigan State University (2020)
- KBS LTER Summer Research Fellowship, Kellogg Biological Station LTER (2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Senior Scientist, Stanford Natural Capital Alliance (2026 - present)
- Postdoctoral Fellow, Stanford Impact Labs (SIL) (2025 - present)
- Affiliated Researcher, King Center on Global Development (2025 - present)
- Global Health Postdoctoral Affiliate, Center for Innovation in Global Health (CIGH) (2025 - present)

LINKS

- Google Scholar: https://scholar.google.com/citations?user=uVeP2xAAAAAJ&hl=en

Publications

PUBLICATIONS

- **Acute mental health benefits of urban nature** *NATURE CITIES*

  Li, Y., Mao, Y., Mandle, L., Rydstrom, A., Remme, R. P., Lan, X., Wu, T., Song, C., Lu, Y., Nadeau, K. C., Meyer-Lindenberg, A., Daily, G. C., Guerry, et al

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- **Transboundary flows in the metacoupled Anthropocene: typology, methods, and governance for global sustainability** *ECOLOGY AND SOCIETY*
  Li, Y., Jia, N., Yu, X., Manning, N., Lan, X., Liu, J.
  2023; 28 (3)
- **SDGdetector: an R-based text mining tool for quantifying efforts toward Sustainable Development Goals** *Journal of Open Source Software*
  Li, Y., Frans, V. F., Song, Y., Cai, M., Zhang, Y., Liu, J.
  2023; 8 (84): 5124
- **Satellite prediction of coastal hypoxia in the northern Gulf of Mexico** *REMOTE SENSING OF ENVIRONMENT*
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  2023; 284
- **Synthesizing social and environmental sensing to monitor the impact of large-scale infrastructure development** *ENVIRONMENTAL SCIENCE & POLICY*
  Li, Y., Zhang, Y., Tiffany, L., Chen, R., Meng, C., Liu, J.
  2021; 124: 527-540
- **Assessing progress towards sustainable development over space and time (vol 577, pg 74, 2020)** *NATURE*
  Xu, Z., Chau, S. N., Chen, X., Zhang, J., Li, Y., Dietz, T., Wang, J., Winkler, J. A., Fan, F., Huang, B., Li, S., Wu, S., Herzberger, et al
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- **Impacts of irrigated agriculture on food-energy-water-CO2 nexus across metacoupled systems** *NATURE COMMUNICATIONS*
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- **Spatially explicit quantification of the interactions among ecosystem services** *LANDSCAPE ECOLOGY*
  Li, Y., Zhang, L., Qiu, J., Yan, J., Wan, L., Wang, P., Hu, N., Cheng, W., Fu, B.
  2017; 32 (6): 1181-1199
- **Mapping the hotspots and coldspots of ecosystem services in conservation priority setting** *JOURNAL OF GEOGRAPHICAL SCIENCES*
  Li Yingjie, Zhang Liwei, Yan Junping, Wang Pengtao, Hu Ningke, Cheng Wei, Fu Bojie
  2017; 27 (6): 681-696
- **The global potential of aquavoltaics for power generation and offsetting the carbon footprint of freshwater aquaculture.** *Nature food*
  Xia, Z., Bush, S. R., Jia, N., Li, Y., Bao, E., Guo, S., Chen, R., Pan, X., Chen, K., Guo, X., Jiang, P., Du, P.
  2026
- **Impact of campus visual natural landscape structure on adolescents' emotions** *ECOLOGICAL FRONTIERS*
  Ren, Y., Cai, Z., Li, Y., Han, B.
  2026; 46 (4): 1469-1477
- **Mapping global floodplain development disparities highlights drivers behind intensifying flood losses.** *Science bulletin*
  Lan, Z., Liu, W., Pablo Schmitt, R. J., Wu, C., Li, Y., Chen, D., Lin, P., Yu, K., Bai, X., Zheng, K., Wang, T., Wang, H., Qi, et al
  2026
- **Linking ecological resilience and ecosystem services to inform spatial conservation planning** *COMMUNICATIONS EARTH & ENVIRONMENT*
  Wang, Z., Fu, B., Wu, X., Wang, S., Zhang, J., Zhang, L., Jiao, L., Wang, H., Li, Y., Luo, Y.
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- **Country-specific progress toward the Sustainable Development Goals: Past, present, and prospects.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Remote sensing reveals the impact of photovoltaic plant deployment on vegetation dynamics and drought sensitivity in vegetation water deficit regions** *CATENA*
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- **Exploring the interdependencies of ecosystem services and social-ecological factors on the Loess Plateau through network analysis.** *The Science of the total environment*
  Wang, Z., Fu, B., Wu, X., Wang, S., Li, Y., Zhang, L., Chen, N., Wu, X.
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- **Assessment of forest disturbance and soil erosion in wind farm project using satellite observations** *RESOURCES CONSERVATION AND RECYCLING*
  Xia, Z., Li, Y., Guo, S., Zhang, X., Pan, X., Fang, H., Chen, R., Du, P.
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- **A Multi-System Coupling Coordination Assessment to Achieve the Integrated Objectives of Forest Conservation, Marine Governance, and Socioeconomic Development in the Bay Area: A Case Study in the Bay Area of the Fujian River Delta** *FORESTS*
  Huang, Z., Li, Y., Chen, X., Yu, X., Shui, W.
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- **Balancing photovoltaic development and cropland protection: Assessing agrivoltaic potential in China** *SUSTAINABLE PRODUCTION AND CONSUMPTION*
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- **Floating solar power as an alternative to hydropower expansion along China's Yellow River** *RESOURCES CONSERVATION AND RECYCLING*
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- **Distinguishing Trajectories and Drivers of Vegetated Ecosystems in China's Loess Plateau** *EARTHS FUTURE*
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- **Escaping social-ecological traps through ecological restoration and socioeconomic development in China's Loess Plateau** *PEOPLE AND NATURE*
  Wang, Z., Fu, B., Wu, X., Li, Y., Wang, S., Lu, N.
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- **Quantitatively distinguishing the impact of solar photovoltaics programs on vegetation in dryland using satellite imagery** *LAND DEGRADATION & DEVELOPMENT*
  Xia, Z., Li, Y., Zhang, W., Guo, S., Zheng, L., Jia, N., Chen, R., Guo, X., Du, P.
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- **Global decadal assessment of life below water and on land.** *iScience*
  Zhang, Y., Li, Y., Liu, J.
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- **Total Nitrogen and Total Phosphorus Pollution Reshaped the Relationship Between Water Supply and Demand in the Huaihe River Watershed, China** *CHINESE GEOGRAPHICAL SCIENCE*
  Lu, Y., Liu, L., Qin, F., Wang, J., Liu, J., Li, Y., Wan, L.
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- **Broader applicability of the metacoupling framework than Tobler's first law of geography for global sustainability: A systematic review** *GEOGRAPHY AND SUSTAINABILITY*
  Manning, N., Li, Y., Liu, J.
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- **Urbanization does not endanger food security: Evidence from China's Loess Plateau.** *The Science of the total environment*
  Li, S., Ji, Q., Liang, W., Fu, B., Lü, Y., Yan, J., Jin, Z., Wang, Z., Li, Y.
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- **Mapping 21st Century Global Coastal Land Reclamation** *EARTHS FUTURE*
  Sengupta, D., Choi, Y., Tian, B., Brown, S., Meadows, M., Hackney, C. R., Banerjee, A., Li, Y., Chen, R., Zhou, Y.
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- **Exploring the interaction between renewables and energy storage for zero-carbon electricity systems** *ENERGY*
  Li, C., Chen, D., Li, Y., Li, F., Li, R., Wu, Q., Liu, X., Wei, J., He, S., Zhou, B., Allen, S.
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  Xia, Z., Li, Y., Chen, R., Sengupta, D., Guo, X., Xiong, B., Niu, Y.
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- **Solar photovoltaic program helps turn deserts green in China: Evidence from satellite monitoring.** *Journal of environmental management*
  Xia, Z., Li, Y., Zhang, W., Chen, R., Guo, S., Zhang, P., Du, P.
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- **Ecosystem service assessments across cascade levels: typology and an evidence map** *ECOSYSTEM SERVICES*
  Wang, Z., Fu, B., Zhang, L., Wu, X., Li, Y.
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- **Unraveling human drivers behind complex interrelationships among sustainable development goals: a demonstration in a flagship protected area** *ECOLOGY AND SOCIETY*
  Yang, H., Dietz, T., Li, Y., Dou, Y., Wang, Y., Huang, Q., Zhang, J., Songer, M., Liu, J.
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  Wu, X., Liu, J., Fu, B., Wang, S., Wei, Y., Li, Y.
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- **Global impacts of future urban expansion on terrestrial vertebrate diversity** *NATURE COMMUNICATIONS*
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  Wu, X., Fu, B., Wang, S., Song, S., Li, Y., Xu, Z., Wei, Y., Liu, J.
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- **High-resolution mapping of water photovoltaic development in China through satellite imagery** *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION*
  Xia, Z., Li, Y., Guo, X., Chen, R.
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- **Global red and processed meat trade and non-communicable diseases** *BMJ GLOBAL HEALTH*
  Chung, M., Li, Y., Liu, J.
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- **Integrating ecosystem service supply and demand into ecological risk assessment: a comprehensive framework and case study** *LANDSCAPE ECOLOGY*
  Wang, Z., Zhang, L., Li, X., Li, Y., Fu, B.
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- **Ecosystem Services under Climate Change Impact Water Infrastructure in a Highly Forested Basin** *WATER*
  Li, X., Zhang, L., J. O'Connor, P., Yan, J., Wang, B., Liu, D., Wang, P., Wang, Z., Wan, L., Li, Y.
  2020; 12 (10)
- **A network perspective for mapping freshwater service flows at the watershed scale** *ECOSYSTEM SERVICES*
  Wang, Z., Zhang, L., Li, X., Li, Y., Frans, V. F., Yan, J.
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- **Impacts of international trade on global sustainable development** *NATURE SUSTAINABILITY*
  Xu, Z., Li, Y., Chau, S. N., Dietz, T., Li, C., Wan, L., Zhang, J., Zhang, L., Li, Y., Chung, M., Liu, J.
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- **Assessing progress towards sustainable development over space and time** *NATURE*
  Xu, Z., Chau, S. N., Chen, X., Zhang, J., Li, Y., Dietz, T., Wang, J., Winkler, J. A., Fan, F., Huang, B., Li, S., Wu, S., Herzberger, et al
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Zheng, H., Zhang, L., Wang, P., Li, Y.
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- **Interactive national virtual water-energy nexus networks** *SCIENCE OF THE TOTAL ENVIRONMENT*
  Xu, Z., Li, Y., Herzberger, A., Chen, X., Gong, M., Kapsar, K., Hovis, C., Whyte, J., Tang, Y., Li, Y., Liu, J.
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- **Evolution of multiple global virtual material flows** *SCIENCE OF THE TOTAL ENVIRONMENT*
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- **A graded index for evaluating precipitation heterogeneity in China** *JOURNAL OF GEOGRAPHICAL SCIENCES*
  Liu Yonglin, Yan Junping, Cen Minyi, Fang Qunsheng, Liu Zhengyao, Li Yingjie
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