Curriculum vitae Shouli Li

Shouli Li, Ph.D.
Professor of Plant Ecology and Biodiversity
State Key Laboratory of Grassland and Agroecosystems, Lanzhou University

Education

2010	Ph.D., Plant Ecology and Biodiversity, Utrecht University, The Netherlands
2006	MSc., Botany, Institute of Botany, Chinese Academy of Sciences, China
2003	BSc., Biology, Yantai Normal University, China

Positions

2023-	Visiting scientist, University of Oxford, UK
2019-	Professor of Plant Ecology and Biodiversity, Lanzhou University, China
2015-2018	Postdoctoral Researcher, Pennsylvania State University, USA
2012-2014	Postdoctoral Researcher, University of Turku, Finland

Research Interests

Plant ecology; ecological restoration; biodiversity conservation; plant population and community ecology; climate change; statistical modeling; applied quantitative ecology; alpine ecology; grassland ecology; forest ecology; modeling infectious disease dynamics; life history evolution; ecology and evolution of infectious disease; invasive species management.

Awards and Honors

2022	Women in Science Award, Lanzhou University & Association for Science and Technology of Gansu Province China
2019	Excellent Young Scientists Fund, China
2019	Best poster award, EEID conference, Princeton University
2012	Best Paper Award, Chinese Ecosystem Research Network
2011	Early-Career Member Award, Plant Population Ecology Section, Ecological Society of America
2007	Ph.D. Scholarship of Royal Academy of Arts and Sciences, The Netherlands
2006	Excellent Graduate Students Award, Chinese Academy of Sciences

Funding

2022-2025 National Natural Science Foundation of China, ¥500,000
2020-2023 National Natural Science Foundation of China, ¥580,000
2020-2022 Exchange Program NSFC & Royal Society UK, ¥86,000
2020-2022 National Key R&D Program of China, ¥600,000
2020 COVID-19 program, ¥100,000
2019-2021 Excellent Young Scientists Fund, ¥3 000,000

Professional Service

Journal of Ecology, Associate Editor, 2023-
Population Ecology, Editorial Board, 2024-
Communications Biology, editorial board, 2020-
Senior member, Botanical Society of China
Founding member and Scientific Advisory Committee, Tibet Qiangtang Ecological Field Station for Climate Change and Alpine Grassland Research (15,584 feet or 4,750m a.s.l).
Committee member, Population Ecology Section, Ecological Society of China
Committee member, Grassland Ecology Section, Chinese Grassland Society
Science Advisory Committee, COMPADRE and COMADRE
Funding Peer review for National Science Foundation of China
Sub-committee for Degree in Agronomy, College of Pastoral Agriculture Science and Technology of Lanzhou University

Publications

Tang LC, Shentu XL, Wei Q, **Li S-L***. 2024. Simultaneously reducing the intensity and increasing the frequency of sand movements promote the performances of seedlings in dune environments. ***Plant and Soil***. doi.org/10.1007/s11104-024-06544-7

Shea K[#]*, Borchering RK[#], Probert WJM[#], Howerton E[#], Bogich TL[#], **Li S-L[#]**, van Panhuis WG[#], Viboud C[#], Aguás R, Belov AA, Bhargava SH, Cavany SM, Chang JC, Chen C, Chen J, Chen S, Chen Y, Childs LM, Chow CC, Crooker I, Del Valle SY, España G, Fairchild G, Gerkin RC, Germann TC, Gu Q, Guan X, Guo L, Hart GR, Hladish TJ, Hupert N, Janies D, Kerr CC, Klein DJ, Klein EY, Lin G, Manore C, Meyers LA, Mittler JE, Mu K, Núñez RC, Oidtman RJ, Pasco R, Pastore Y Piontti A, Paul R, Pearson CAB, Perdomo DR, Perkins TA, Pierce K, Pillai AN, Rael RC, Rosenfeld K, Ross CW, Spencer JA, Stoltzfus AB, Toh KB, Vattikuti S, Vespignani A, Wang L, White LJ, Xu P, Yang Y, Yogurtcu ON, Zhang W, Zhao Y, Zou D, Ferrari MJ, Pannell D, Tildesley MJ, Seifarth J, Johnson E, Biggerstaff M, Johansson MA, Slayton RB, Levander JD, Stazer J, Kerr J, Runge MC[#]. 2023. Multiple models for outbreak decision support in the face of uncertainty.

Proceedings of the National Academy of Sciences of the United States of America, 120(18):e2207537120. (**#core team member**)

Probert W.J.M, Nicol S, Ferrari M.J, **Li S-L**, Shea K, Tildesley M.J, Runge M.C. 2022.Vote-processing rules for combining control recommendations from multiple models. ***Philosophical Transactions of the Royal Society A***,380:20210314 doi.org/10.1098/rsta.2021.0314

Shea K, Runge MC, Pannell D, Probert WJM, **Li S-L**, Tildesley M, Ferrari M. 2020. Harnessing multiple models for outbreak management. ***Science***, 368: 577-579.

Li S-L*, Ferrari MJ, Bjørnstad ON, Runge MC, Fonnesbeck CJ, Tildesley MJ, Pannell D, Shea K. 2019. Concurrent assessment of epidemiological and operational uncertainties for optimal outbreak control: Ebola as a case study. ***Proceedings of the Royal Society B***, 286: 20190774.

Li S-L*, Bjørnstad ON, Ferrari MJ, Mummah R, Runge MC, Fonnesbeck CJ, Tildesley MJ, Probert WJM, Shea K**. 2017. Essential information: Uncertainty and optimal control of Ebola outbreaks. ***Proceedings of the National Academy of Sciences of the United States of America***, 114(22): 5659-5664.

Yang X, Angert A, Zuidema PA, He FL, Huang S, Li S, **Li S-L,** Chardon N, Zhang J. 2022.The role of demographic compensation in stabilizing marginal tree populations in North America. ***Ecology Letters***, doi:10.1111/ELE.14028

Li S-L*, Keller, J, Runge, MC, Shea, K. 2021.Weighing the unknowns: Value of Information for biological and operational uncertainty in invasion management. ***Journal of Applied Ecology***, 58: 1621–1630.

Yang X, Li S, Shen B, Wu Y, Sun S, Liu R, Zha R, **Li S-L**. 2018. Demographic strategies of a dominant tree species in response to logging in a degraded subtropical forest in Southeast China. ***Annals of Forest Science***, 75:84. doi.org/10.1007/s13595-018-0764-0

Li S-L, Yu F-H, Werger, MJA, Dong M, Ramula S, Zuidema PA. 2013. Understanding the effects of a new grazing policy: the impact of seasonal grazing on shrub demography in the Inner Mongolian steppe. ***Journal of Applied Ecology***, 50: 1377-1386.

Li S-L, Yu F-H, Werger, MJA, Dong M, Zuidema PA. 2011. Habitat specific demography across dune fixation stages in a semi-arid sandland: understanding the expansion, stabilization and decline of a dominant shrub. ***Journal of Ecology,*** 99:610-620.

Li S-L*, Ramula S. 2016. Genetic variation facilitates the establishment but not the population fitness of a perennial invader. ***Annals of Botany***, 117: 187-194.

Li S-L*, Ramula S. 2015. Testing the life history strategies of plant invaders in temporally varying environments. ***Population Ecology***, 57:373-380

Li S-L, Vasemägi A, Ramula S. 2016. Genetic variation and population structure of the garden escaper *Lupinus polyphyllus* in Finland. ***Plant Systematics and Evolution*** 302:399-407.

Li S-L, Yu F-H, Werger, MJA, Dong M, During HJ, Zuidema PA. 2015. Mobile dune fixation by a fast-growing clonal plant: a full life-cycle analysis. ***Scientific Reports***, DOI:10.1038/srep08935

Li S-L, Vasemgi A, Matos-Marav P, Ramula S. 2013.Development and testing of microsatellite loci for the invasive herb *Lupinus polyphyllus* through 454 pyrosequencing. ***Molecular Ecology Resources***, 13: 760-762.

Li S-L, Zuidema PA, Yu F-H, Werger MJA, Dong M. 2010.Effects of denudation and burial on growth and reproduction of *Artemisia ordosica* in Mu Us sandland. ***Ecological Research***, 25: 655-611.

Li S-L, Werger MJA, Zuidema PA, Yu F-H, Dong M. 2010. Seedlings of the semi-shrub Artemisia ordosica are resistant to moderate wind denudation and sand burial in Mu Us sandland, China. ***Trees-structure and function***, 24: 515-521.

Miao H-T, Salguero-Gomez R, Shea K, Keller J, Zhang J-H, He J-S, **Li S-L***. Differences in adult survival drive divergent demographic responses to a decade of field warming on the Tibetan Plateau. **bioRxiv**2023.10.03.560467. doi.org/10.1101/2023.10.03.560467 preprint