

# Yani Meng

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## EDUCATION

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- 2021-present Shanghai, China  
Ph.D. student in Ecology, East China Normal University
- 2017-2020 Shenyang, China  
M.S. in Ecology, Shenyang Institute of Applied Ecology, Chinese Academy of Sciences
- 2012-2016 Rizhao, China  
B.S. in Geography, Qufu Normal University

## RESEARCH EXPERIENCE

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- **Jun 2021- present The roles of native community diversity and native-exotic species ecological differences on invasion resistance: a global-scale analysis**  
*Supervisor: Dr. Shaopeng Li (Biodiversity and biological invasions)*  
We assessed the relative influence of community diversity (Elton's biotic resistance hypothesis) and exotic-native differences (Darwin's naturalization hypothesis) on invasion resistance under resource enrichment at the global scale based on the Nutrient Network database.
- **Oct 2020- Aug 2023 Scale-dependent changes in ecosystem temporal stability over six decades of succession**  
*Supervisor: Dr. Shaopeng Li (Biodiversity and biological invasions)*  
We investigated the changes in community temporal stability over long-term succession across two spatial scales, using serial 60-year natural succession data from 480 plots within 10 fields.
- **Jun 2017- Jun 2022 Legacy effects of long-term nitrogen and water addition on plant community structure and functioning in a typical steppe**  
*Supervisor: Dr. Zhuwen Xu (Global change ecology)*  
Based on a field experiment, we examined the legacy effects of N deposition and increased precipitation on plant diversity, species composition, and productivity in a semi-arid steppe after the cessation of 13-year N and water addition.

## PUBLICATIONS

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- **Meng, Y. N.**, Li, S. P.\*, Wang, S. P., Meiners, J. S. & Jiang, L. (2023). Scale-dependent changes in ecosystem temporal stability over six decades of succession. *Science Advances*, 9, eadi1279. [10.1126/sciadv.adi1279](https://doi.org/10.1126/sciadv.adi1279)
- **Meng, Y. N.**, Li, T., Liu, H., Li, S. P., Xu, Z.\* & Jiang, Y\*. (2023). Legacy effects of nitrogen deposition and increased precipitation on plant productivity in a semi-arid grassland. *Plant and Soil*, 491, 69–84. <https://doi.org/10.1007/s11104-022-05550-x>

- Xu, Z. W., Liu, H., **Meng, Y. N.**, Yin, J., Ren, H., Li, M., ... & Jiang, L\*. (2023). Nitrogen addition and mowing alter drought resistance and recovery of grassland communities. *Science China Life Sciences*. 66, 1682–1692. [10.1007/s11427-022-2217-9](https://doi.org/10.1007/s11427-022-2217-9)
- Li, S. P., Jia, P., Fan, S. Y., Wu, Y., Liu, X., **Meng, Y.**, ... & Jiang, L\*. (2022). Functional traits explain the consistent resistance of biodiversity to plant invasion under nitrogen enrichment. *Ecology Letters*, 25(4), 778-789. [10.1111/ele.13951](https://doi.org/10.1111/ele.13951)
- Li, T., Wang, R., Cai, J., **Meng, Y.**, Wang, Z., Feng, X., ... & Jiang, Y\*. (2021). Enhanced carbon acquisition and use efficiency alleviate microbial carbon relative to nitrogen limitation under soil acidification. *Ecological Processes*, 10(1), 1-13. [10.1186/s13717-021-00309-1](https://doi.org/10.1186/s13717-021-00309-1)
- **Meng, Y. N.**, Li, T., Shi Z., Cai, J., Xu, Z. & Jiang, Y\*. (2020). Effects of fertilization and water addition on soil acid neutralizing capacity in an old-field grassland. *Chinese Journal of Applied Ecology*, 31(5), 1579-1586. (in Chinese) [10.13287/j.1001-9332.202005.010](https://doi.org/10.13287/j.1001-9332.202005.010)
- Li, S. P.\*, Fan S.Y., **Meng Y.**, Zhang W. & Yao Q. (2023). Darwin's naturalization conundrum: an unsolved paradox in invasion ecology. *Scientia Sinica Vitae* (in Chinese, Accepted) [10.1360/SSV-2023-0136](https://doi.org/10.1360/SSV-2023-0136)

### **IN PREPARATION**

**Meng, Y. N.**, Li, S. P.\*, Jiang, L., ... & Seabloom E. Biodiversity consistently resists invasion under nutrient enrichment conditions across grasslands worldwide.

### **FELLOWSHIPS AWARDS GRANTS**

- 2022-2023** Outstanding Undergraduate Student Award of East China Normal University.
- 2023.10** Excellent Report Award of the 22<sup>nd</sup> China Conference on Ecology Graduate Student Forum in Beijing, China.
- 2022-2023** China National Scholarship for doctoral students.
- 2023.08** 2<sup>nd</sup> Place Award for oral presentation at the 12<sup>th</sup> Ecologists' Club meeting in Harbin, China.
- 2023-2025** Scholarship from the Chinese Scholarship Council
- 2022.08** Excellent Report Award of the 21<sup>st</sup> China Conference on Ecology graduate student forum in Guiyang, China.
- 2019.01** Third prize for oral presentation at the 3<sup>rd</sup> International Symposium on Grassland Ecology and Adaptive Management in Daqing, China.
- 2017-2023** National Academic Scholarships.

### **SKILLS**

- Statistical analysis using R language
- Microsoft Word, Excel, PowerPoint, Adobe Illustrator
- Fieldwork (i.e. grassland survey, soil sampling, plot construction and harvest)
- Soil chemical analysis

## REFEREES

### **Shaopeng Li, PhD**

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### **Zhuwen Xu, PhD**

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