Jiaxin HU

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Erguna Forest-Steppe Ecotone Research Station, CAS Key Laboratory of Forest Ecology and Management, Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang 110016, China.

EDUCATION

Institute of Applied Ecology, Chinese Academy of Sciences | 2023 - present

PhD candidate in Ecology | Dr. Zhengwen Wang

- ✧ Research: The multifunctionality and multi-trophic biodiversity of grassland ecosystem under global change.
- ✧ GPA: 3.88
- ✧ Major course: General Ecology, Soil Science
- ✧ Scholarship: Zhongke Ecological Environmental Impact Assessment Scholarship (¥1000)

Institute of Applied Ecology, Chinese Academy of Sciences | 2020-2023

Master of Ecology | Dr. Zhengwen Wang

- ✧ Research: "Nitrogen- and water- use efficiency in dominant plants of meadow steppe in response to drought and nitrogen addition" - shed light on the antagonistic, synergetic and neutral effects between nitrogen deposition and drought on resource use efficiency, and further clarified the different adaptability among species of different functional groups, which will conduce to a comprehensive understanding on the role of NUE and WUE in plant persistence and coexistence in grassland ecosystems.
- ✧ GPA: 3.73
- ✧ Major course: Plant Ecology, Global Change Ecology, Advanced Ecology, Statistical Analysis of Ecological Data, Soil Ecology, Ecosystem ecology

PUBLICATIONS

1. **Hu JX[1]**, Ma W[*], Wang ZW. Effects of nitrogen addition and drought on the relationship between nitrogen- and water-use efficiency in a temperate grassland[J]. *Ecological Processes*, 2023, 12:36.
2. Ma W, **Hu JX[2]**, Zhang BC, Guo J, Zhang XJ, Wang ZW[*]. Later-melting rather than thickening of snowpack enhance the productivity and alter the community composition of temperate grassland[J]. *Science of The Total Environment*, 2024, 923, 171440.
3. Liang XS, Ma W, **Hu JX[3],** Zhang BC, Wang ZW, Lǚ XT[*]. Extreme drought exacerbates plant nitrogen-phosphorus imbalance in nitrogen enriched grassland[J]. *Science of The Total Environment*, 2022, 849, 157916.
4. **Hu JX[1]**, Ma W, Wang ZW. The trade-off between water and nitrogen use efficiency exhibits functional group specificity in response to nitrogen addition and drought. (To be submitted)

5. Ma W, Luo WT, **Hu JX**[3], Liang XS, Zhang BC, Yu Q, Han XG, Wang ZW*. Precipitation and vegetation heterogeneity modulate the responses of semiarid grassland to drought manipulations. (To be submitted)
6. Ma W, Liang XS, Luo WT, Zhang BC, **Hu JX**[5], Guo J, Hassan N, Yu Q, Han XG, Wang ZW*. Drought-induced changes in functional trait space are driven by species diversity loss. (In preparation)
7. **Hu JX**[1,1], Xu ZX[1,2], Ma W, Zhang BC, Cui X, Li Q[*], Wang ZW[*]. The multifunctionality and diversity of grassland ecosystem under global change. (In preparation)

ACADEMIC CONFERENCES

1. **Hu JX**. 2023. Response of water and nitrogen use efficiency of grassland plants to drought and nitrogen addition. The 5th Academic Symposium on Adaptive Management of Grassland Ecosystems. Taigu, China. Apr. 21-25, 2023 (Oral presentation).
2. **Hu JX**. 2022. Response of nitrogen and water use efficiency of dominant plants in grassland to drought and nitrogen addition. The 21st China Ecology Conference. Guiyang, China. Aug. 26-29. 2022 (Oral presentation).

AWARDS & HONOURS

1. Merit student, UCAS 2024
2. Merit student, UCAS 2023
3. Merit student, UCAS 2022
4. Merit student, UCAS 2021
2. Excellent Award for the Report of the 5th Academic Symposium on Adaptive Management of Grassland Ecosystems 2024

SKILLS

Languages (English): CET-6(500), CET-4(502)

Computer: Proficient in Microsoft Word, Excel & Power-points, R, SPSS, Origin, Adobe Photoshop.