# CV

Lulu Hou

## Research Objective

Systematic study of Theoretical Ecology, Botany, with a research focus on changes in aboveground net primary productivity (ANPP) of grazed grasslands, including grazing livestock behavior and the mechanisms of productivity change in grazing grasslands. further analyze the mechanism of change in grazing grassland ANPP from vegetation-livestock-soil aspects.

## Education

2020/09-2024/06 Chinese Academy of Agricultural Sciences PhD
Studied grassland ecology

2017/09-2020/08 Chinese Academy of Agricultural Sciences Master
Studied grassland ecology

2013/09-2017/07 Henan Agricultural University Bachelor
Studied crop cultivation

## Work Experiment

2024/07-now Chinese Academy of Agricultural Sciences Postdoc
Doing research on grassland ecology

2026/03-now Michigan State University Postdoc
Doing research on grassland ecology

## Achievement

- ### Research Publications

1. **Hou, L.L.**; Xin, X.P.; Sun, H.X., et al. Grazing-induced cattle behaviour modulates the secondary production in a Eurasian steppe ecosystem. ***Science of the Total Environment***, 2023, 889. (IF = 9.8)
2. **Hou, L.L.**; Xin, X.P.; Shen, B.B., et al. Effects of Long-Term Grazing on Feed Intake and Digestibility of Cattle in Meadow Steppe. ***Agronomy-Basel***, 2023, 13. (IF = 3.7)

3. Xin, X.P.; Li, L.H.; Tang, H.J.; Qin, Y.F.; **Hou, L.L.***; Qi, J.G*. Anthropogenic and Climate Impacts on Carbon Dynamics of Grassland Ecosystems in Northern China. ***Science of the Total Environment***, 2024, 17054. (Corresponding author) (IF = 9.8)
4. **Hou Lulu**, Wang Xu, Zhang Xiang, Yan Yuchun, et al. The Effect of Grazing Intensity on Beef Cattle's Behavior. ***Acta Agrestia Sinica***. 2021, 29(09):1974-1982. (In Chinese)
5. **Hou Lulu,** Yan Ruirui, Zhang Yu, Xin Xiaoping. Effects of Grazing Intensity on Functional Traits of *Leymus chinensis* in Meadow Steppe. ***Scientia Agricultura Sinica***, 2020, 53(13):2562-2572. (In Chinese)
6. **National invention patent**, "Automatic Real-Time Monitoring Method for Grazing Livestock Feed Intake Based on BeiDou Navigation Positioning". (Second Inventor)

- ***Awards and honors***

1. "Best Thesis Award" of Sanyi Scholarship, 2023.
2. "Excellent Student Cadre", Chinese Academy of Agricultural Sciences (CAAS), 2021, 2022.
3. "Excellent Communist Party Member", Institute of Resource Planning, Chinese Academy of Agricultural Sciences (CAAS), 2021, 2022, 2023.

## *Research projects*

1. 2026/01-2028/12, National Natural Science Foundation of China (NSFC) Young Scientists Fund, "Regulation Mechanisms of Grazing Livestock Behavior on Grassland Community Structure and Productivity", **Project leader**.
2. 2024/12-2027/11, National Key Research and Development Program of China, "Research and Demonstration of New Technologies for Monitoring and Evaluating the Effectiveness and Stability of Vulnerable Ecosystem Restoration", **Project Participants**.
3. 2021/12-2026/11, National Natural Science Foundation of China (NSFC) Key Project, "Coupling of Carbon and Water in Hulunber Grassland Ecosystem and its Grazing Response Mechanisms", **Project Participants**.

## *Skills*

1. Proficient in Arcgis, ENVI, OriginLab, Visio, Xmind and other graphic software, Endnote Literature management software, and SPSS, RStudio data analysis software.
2. Understanding of Python, Matlab, Google Earth Engine and other programming.
3. Knowledge of a variety of data analysis methods such as general linear modelling, structural equation modelling, etc.

## *Hobby*

Practicing tai chi, playing billiards, and running.