SENYAO FENG

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🎓 EDUCATION

Lanzhou University, Lanzhou, China   2020.09 – 2023.06

M.Agr. in Grassland Science, **Score:** 90.13/100, **Tutor:** Wenlong Li
Research orientation: Ecological Remote Sensing and Geographic Information System
Graduation project: Comprehensive ecological risk assessment of grassland ecosystems in Gannan prefecture

Sichuan Agricultural University, Chendu, China   2016.09 – 2020.06

B.Eng. in Land Resource Management, **Score:** 84.14/100, **Tutor:** Zongda Hu
Graduation project: Analysis of land use change and its driving force in Qingbaijiang District, Chengdu City

🔥 RESEARCH INTERESTS

- Remote Sening and Geographic Information System
- Ecological Assessment and Environmental Management
- Remote Sensing Data-based Inversion

👥 EXPERIENCE

Remote sensing monitoring of ecological changes in the Yellow River Basin   2020

Project Participant

- Combined classification scheme based on ecosystem types with Sentinel-2 data, GEE, Random forest to present new high-resolution LULC products
- Provide data support for the monitoring of regional-scale ecosystem types and quality assessment
- Responsible for UAV photography, data preprocessing, mapping

Qilian Mountain National Park mountain vertical zone monitoring sample plot construction project   2021

Project Participant

- Establish a vertical monitoring transect of typical ecosystems in Qilian Mountains National Park
- Explore the migration rules of forest-shrub ecotone, shrub-grass ecotone, and snow line in the vertical zone under climate change
- Participate in ecological surveys, Responsible for multi-spectral UAV photography, processing and mapping

Coupling Mechanism Interaction and Comprehensive Management of Ecological-Hydrological Processes in Ecologically Fragile Areas of Yellow River Basin   2021

Project Participant

- Reveal the mutual feeding mechanism of hydrological process and ecological process under climate change
- Build a comprehensive system integrating risk identification, assessment, prediction and forecasting
- Responsible for data collection, preprocessing, mapping

Remote sensing monitoring and inversion project of nutritional quality of Hexi alfalfa   2023

Project Participant

- Screen and establish a characteristic variable system highly related to the nutritional quality of alfalfa
- Combine ASD hyperspectral and S-2 multispectral data to monitor the quality of cultivated alfalfa land
- Participate in the alfalfa pretreatment, data preprocessing and mapping

▤ Publications

- Feng, S., et al., 2022. Land Use/Land Cover Mapping Based on GEE for the Monitoring of Changes in Ecosystem Types in the Upper Yellow River Basin over the Tibetan Plateau. *Remote Sensing*, 14(21), 5361. % *link*
- Feng, S., et al., 2023. Drought monitoring and drought risk assessment of alpine grasslands on the Tibetan Plateau under climate change. Ready to Submit. In preparation for submission to *Agricultural Ecosystems and Environment*.
- Feng, S., et al., 2023. A comprehensive ecological risk assessment framework for grasslands – a case study of Gannan prefecture, northeastern Tibetan Plateau. Ready to Submit. In preparation for submission to *Journal of Cleaner Production*.

⚙ Skills

- Programming Skills: Python, Matlab, R, Javascript (Google Earth Engine)
- Ability: Machine Learning, Remote Sensing-based Inversion, Ecological Assessment
- Tools: rich experience in using Arcpy, Erdas, ENVI, ArcGIS Pro, IDRISI, QGIS, eCognition, Sigmaplot, Origin and Visio
- Interest Areas: LUCC, Inversion, Ecological Risk, Ecosystem Services, Eco-Health

◣ Scholarship

Second-class Scholarship of Lanzhou University	2020
Second-class Scholarship of Lanzhou University	2022

✎ Self-Assessment

- Conscientious, Proactive, Optimistic, Focused
- Passion for problem solving

ⓘ Miscellaneous

- Languages: Mandarin, English (CET-6 503), Cantonese, Japanese