**Maowei LIANG**

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[mwliang@umn.edu](mailto:mwliang@umn.edu) | [Website](https://maowei-liang.weebly.com) | [Google scholar](https://scholar.google.com/citations?user=QAHwFZ8AAAAJ&hl=en)

**RESEARCH & TEACHING INTERESTS**

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| --- |
| Animal-Plant Interactions, Biodiversity, Community and Ecosystem Ecology, Carbon Cycling, Ecological Statistics, Global Changes, Grassland Ecology, Grazing, Plant-Soil Interactions, Population Ecology, Quantitative Ecology, Rangeland Restoration, Stability |

**Education**

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| --- | --- |
| 2014 − 2019 | **Ph.D.** Ecology, **Inner Mongolia University** & **Michigan State University** |
| 2011 − 2014 | **M.S.** Ecology, **Inner Mongolia University** |
| 2007 − 2011 | **B.A.** Landscape Architecture, **Inner Mongolia University for Nationalities** |

**PROFESSIONAL APPOINTMENTS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2022- present | **Research Scientist, University of Minnesota** | St Paul, MN  USA | | |
| 2021 – 2022 | **Postdoctoral Scholar,** **University of Virginia**  Department of Environmental Sciences, | Charlottesville, VA  USA | | |
|  | *Assessing the climate extreme impacts on the diversity-stability relationships across multiple scales among trophic groups in kelp forest* |  | | |
| 2019 – 2021 | **Postdoctoral Research Scientist,** **Peking University**  College of Urban and Environmental Sciences, | | | Beijing, China |
|  | *Developed and validated a systematic approach to studying biological diversity and ecological stability across spatial scales in the face of global changes via combining empirical data and theoretical framework.* | | |  |
| 2018 – 2019 | **Assistant Research Scientist,** **University of Arizona**  School of Nature Resources and the Environment, | | Tucson, AZ USA | |
|  | *Examined how rainfall pulse sizes regulate plant community dynamics in rangeland using the Santa Rita Experimental Range long-term dataset.* | | |  |

**PUBLICATIONS**

|  |  |
| --- | --- |
| ***Peer-reviewed journal articles*** (†: mentored students; \*: corresponding author) | |
| 1. Zuo, X., Gornish, E.S., Koerner, S.E., van der Plas, F., Wang, S., **Liang, M**\***.** (2023) Dominant Species Determine Grazing Effects on the Stability of Herbaceous Community Production at Multiple Scales in Dryland. (*Submitted*) | |
| 1. Sun, S., Zhao, S., Liu, X., Lv, P., Liang, M., Li, Y., Hu Y., Zuo, X. (2023). Grazing Impairs Ecosystem Stability through Changes in Species Asynchrony and Stability rather than Diversity across Spatial Scales in Desert Steppe, Northern China. *Agriculture, Ecosystems & Environment*, 346:108343. <https://doi.org/10.1016/j.agee.2023.108343> | |
| 1. **Liang, M.**, Baiser, B., Hallett, L.M., Hautier, Y., Jiang, L., Loreau, M., Record, S., Sokol, E.R., Zarnetske, P.L., & Wang, S. (2022). Consistent Stabilizing Effects of Plant Diversity Across Spatial Scales and Climatic Gradients. *Nature Ecology & Evolution*, 6: 1669-1675. <https://doi.org/10.1038/s41559-022-01868-y> | |
| 1. Wu, Y. †, Guo, Z., Li, Z., **Liang, M.**, Tang, Y., Zhang, J., Miao, B., Wang, L., Liang, C. (2022). The Main Driver of Soil Organic Carbon Differs Greatly between Topsoil and Subsoil in a Grazing Steppe. *Ecology & Evolution*, 12: e9182. <https://doi.org/10.1002/ece3.9182> | |
| 1. **Liang, M.**,Liang, C., Hautier, Y., Wilcox, K. R., & Wang, S. (2021).   Grazing-induced Biodiversity Loss Impairs Grassland Ecosystem Stability at Multiple Scales. *Ecology Letters*, 24: 2054-2064. <https://onlinelibrary.wiley.com/doi/10.1111/ele.13826>  [**Featured on cover**](https://onlinelibrary.wiley.com/doi/10.1111/ele.13558)**.**  **2022 ESA early career publication award (Ecological Restoration)** |  |
| 1. Yan, Y. †, Connolly, J., **Liang, M.**, Jiang, L., & Wang, S. (2021).Mechanistic Links between Biodiversity Effects on Ecosystem Functioning and Stability in A Multi-site Grassland Experiment. *Journal of Ecology*, 109: 3370-3378. <https://besjournals.onlinelibrary.wiley.com/doi/abs/10.1111/1365-2745.13725> | |
| 1. Gao, W., Lei, X., **Liang, M.**, Larjavaara, M., Fu, L., Zhou, M., Li, Y., Guo, H., Zhang, H. (2021). Biodiversity Increased both Forest Productivity and Its Spatial Stability in Temperate Forests in Northeastern China. *Science of Total Environment*, 780: 146674. <https://www.sciencedirect.com/science/article/abs/pii/S0048969721017423#:~:text=We%20concluded%20that%20biodiversity%20could,relationships%20within%20biodiversity%E2%88%92ecosystem%20functioning>. | |
| 1. Li, Z. †, **Liang, M.**, Li, Z., Mariotte, P., Tong, X., Zhang, J., Dong, L., Zheng, Y., Ma, W., Zhao, L., Wang, L., Wen, L., Tuvshintogtokh, I., Gornish, E. S., Liang, C, & Li, F. Y. (2021). Plant Functional Groups Mediate the Effects of Climate and Soil Factors on Species Richness and Community Biomass on the Mongolian Plateau grasslands. *Journal of Plant Ecology*, 14: 679-691. <https://academic.oup.com/jpe/article/14/4/679/6164817> | |
| 1. **Liang, M.**, Smith, N. G., Chen, J., Wu, Y., Guo, Z., Gornish, E. S., & Liang, C. (2021). Shifts in Plant Composition Mediate Grazing Effects on Carbon Cycling in Grasslands. *Journal of Applied Ecology*, 58: 518-527. <https://besjournals.onlinelibrary.wiley.com/doi/abs/10.1111/1365-2664.13824> | |
| 1. **Liang, M.**, Feng, X., & Gornish, E. S. (2021). Rainfall Pulses Mediate Long-term Plant Community Compositional Dynamics in A Semi-arid Rangeland, *Journal of Applied Ecology*, 58: 708-717. <https://besjournals.onlinelibrary.wiley.com/doi/abs/10.1111/1365-2664.13780> | |
| 1. Gornish, E. S., Ganjurjav, H., **Liang, M.**, Simonis, J., McClaran, M. (2021). Identifying Restoration Opportunities Beneath Native Mesquite Canopies. *Restoration Ecology*, 29: e13334. <https://onlinelibrary.wiley.com/doi/abs/10.1111/rec.13334> | |
| 1. **Liang, M.** & Gornish, E. S. (2019). Rainfall Regulation of Grazed Grasslands. *Proceedings of the National Academy of Sciences of the United States of America*, 116(48): 23887-23888. <https://www.pnas.org/doi/10.1073/pnas.1915399116> | |
| 1. Miao, B., Liang, C., Shi, Y., **Liang, M.**, & Liu, Z. (2019). Temporal Changes in Precipitation Altered Aboveground Biomass in a Typical Steppe in Nei Mongol, China. *Chinese Journal of Plant Ecology*, 42(7): 557-565. ([***in Chinese***](http://kns.cnki.net/KCMS/detail/detail.aspx?dbcode=CJFQ&dbname=CJFDLAST2016&filename=NMGX201603009&uid=WEEvREcwSlJHSldRa1FhcTdWZDlrZytpOXVHdjFDWEwrWllHd2FSeFhTOD0=$9A4hF_YAuvQ5obgVAqNKPCYcEjKensW4ggI8Fm4gTkoUKaID8j8gFw!!&v=MTQyNTMzcVRyV00xRnJDVVJMMmZZZVpvRmk3blZiM01LeURNZHJHNEg5Zk1ySTlGYllSOGVYMUx1eFlTN0RoMVQ=)) <https://www.plant-ecology.com/EN/10.17521/cjpe.2018.0230> | |
| 1. **Liang, M.**, Gornish, E. S., Mariotte, P., Chen, J., & Liang, C. (2019). Foliar Nutrient Content Mediates Grazing Effects on Species Dominance and Plant Community Biomass. *Rangeland Ecology & Management*, 72(6): 899-906. <https://www.sciencedirect.com/science/article/abs/pii/S1550742419300569?via%3Dihub> | |
| 1. **Liang, M.**, Chen, J., Smith, N. G., Bai, X., Jia, C., Li, Z., & Liang, C. (2019). Changes and Regulations of Net Ecosystem CO2 Exchange across Temporal Scales in the Alxa Desert. *Journal of Arid Environments,* 164: 78-84. <https://www.sciencedirect.com/science/article/abs/pii/S0140196318302660?via%3Dihub> | |
| 1. **Liang, M.**, Chen, J., Gornish, E. S., Bai, X., Li, Z., & Liang, C. (2018). Grazing Effect on Grasslands Escalated by Abnormal Precipitations in Inner Mongolia. *Ecology and Evolution,* 8(16): 8187-8196. <https://onlinelibrary.wiley.com/doi/full/10.1002/ece3.4331> | |
| 1. Wang, J., Wang, D., Li, C., Seastedt, T. R., Liang, C., Wang, L., Sun, W., **Liang, M.,** & Li, Y. (**2018**). Feces Nitrogen Release Induced by Different Large Herbivores in a Dry Grassland. Ecological Applications, 28(1): 201-211. <https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/eap.1640> | |
| 1. **Liang, M.**, Liang, C., Bai, X., Miao, B., Wang, Y., Bao, G., & Wang, X. (2016). Effects of Annual Plant Functional Group on Biomass and Soil Respiration in a Grazing Community of a Typical Steppe Grassland. *Pratacultural Science,* 33(12): 2407-2417. ([***in Chinese***](http://kns.cnki.net/KCMS/detail/detail.aspx?dbcode=CJFQ&dbname=CJFDLAST2016&filename=NMGX201603009&uid=WEEvREcwSlJHSldRa1FhcTdWZDlrZytpOXVHdjFDWEwrWllHd2FSeFhTOD0=$9A4hF_YAuvQ5obgVAqNKPCYcEjKensW4ggI8Fm4gTkoUKaID8j8gFw!!&v=MTQyNTMzcVRyV00xRnJDVVJMMmZZZVpvRmk3blZiM01LeURNZHJHNEg5Zk1ySTlGYllSOGVYMUx1eFlTN0RoMVQ=)) [https://www.cnki.net/kcms/detail/detail.aspx?filename=CYKX201612005&dbcode=CJFD&dbname=CJFD2016&v=rxmZgzQNQ9%mmd2BLjzXGMszlcd32yHCTnTUNFraXnA%mmd2BvXjJaiGVLc5yH1TvucHoKPCL2](https://www.cnki.net/kcms/detail/detail.aspx?filename=CYKX201612005&dbcode=CJFD&dbname=CJFD2016&v=rxmZgzQNQ9%25mmd2BLjzXGMszlcd32yHCTnTUNFraXnA%25mmd2BvXjJaiGVLc5yH1TvucHoKPCL2) | |
| 1. **Liang, M.**, Bai, X., Wang, Y., Miao, B., Bao, G., Wang, X., & Liang, C. (**2016**). The Studies of Grazing Utilization Effect on the Carbon Cycle in Inner Mongolia Typical Steppe. Journal of Inner Mongolia University (Natural Science Edition), 47(3): 278-284. ([***in Chinese***](http://kns.cnki.net/KCMS/detail/detail.aspx?dbcode=CJFQ&dbname=CJFDLAST2016&filename=NMGX201603009&uid=WEEvREcwSlJHSldRa1FhcTdWZDlrZytpOXVHdjFDWEwrWllHd2FSeFhTOD0=$9A4hF_YAuvQ5obgVAqNKPCYcEjKensW4ggI8Fm4gTkoUKaID8j8gFw!!&v=MTQyNTMzcVRyV00xRnJDVVJMMmZZZVpvRmk3blZiM01LeURNZHJHNEg5Zk1ySTlGYllSOGVYMUx1eFlTN0RoMVQ=)) <https://www.cnki.net/kcms/doi/10.13484/j.nmgdxxbzk.20160310.html> | |
| 1. Miao, B., Liang., C., Han, F., **Liang, M.**, & Zhang Z. (**2016**). Responses of Phenology to Climate Change over the Major Grassland Types. ***Acta Ecologica Sinica,*** 36(23): 7689-7701. ([***in Chinese***](http://www.ecologica.cn/stxb/ch/html/2016/23/stxb201511112281.htm)) <http://www.ecologica.cn/stxb/article/abstract/stxb201511112281> | |
| 1. Chai, X., Liang, C., **Liang, M.**, Han, W., Li, Z., Miao, B., Wang, W., & Wang, L. (**2014**). Seasonal Dynamics of Belowground Biomass and Productivity and Potential of Carbon Sequestration in Meadow Steppe and Typical Steppe in Inner Mongolia, China. ***Acta Ecologica Sinica,*** 34(19): 5530-5540. ([***in Chinese***](http://www.ecologica.cn/stxb/ch/html/2014/19/stxb201301190118.htm)) <https://www.ecologica.cn/stxb/article/abstract/stxb201301190118> | |
| ***Manuscripts in Progress*** | |
| 1. **Liang, M.**, Chase J.M., Loreau, M., Isbell, F., Schmid, B., Tilman, D., Wang, S. (2023). Spatial Scaling of Ecosystem Stability Driven by Biodiversity in Terrestrial Plants. (*in preparation*) | |
| 1. **Liang, M.**,Lamy, T.,Reuman, D.C., Wang, S., Bell, T.W., Cavanaugh, K.C.,Castorani, M.C.N. (2023). A Marine Heatwave Changes the Stabilizing Effects of Biodiversity. (*in preparation*) | |
| 1. **Liang, M.**, van der Plas, F., Gornish, E.S., Mariotte, P., Liang, C., & Wang, S. (2023). Multifaceted Diversity Mediates Grazing Effects on Grassland Ecosystem Multifunctionality. (*in preparation*) | |
| 1. **Liang, M.**, Gornish, E.S., van der Plas, F., Harrison, S.P., Rueda, M., Mariotte, P., Speed, J.D.M., Holl, K., Josie Lesage, J., Wilcox, K.R., Hautier, Y., Hallett, L.M., …, Liang, C., & Wang, S. (2023) Biodiversity Shifts Determine Herbivore Effects on Ecosystem Stability of Global Grasslands. (*in preparation*) | |
| 1. **Liang, M.**, Brudvig, L.A., Turley, N.E., Ledvina, J.A., Wang, S. (2023). Agricultural Legacy Mitigates Restoration-destabilized Savannas at Large Ecosystem-Scale. (*in preparation*) | |
| 1. **Liang, M.**, …, Liang, C., & Wang, S. (2023). Diversifying Livestock Affects Grassland Productivity, Resistance, Resilience, and Stability. (*in preparation*) | |
| 1. **Liang, M.**, …, Liang, C., & Wang, S. (2023). Diversifying Livestock Revamps Biodiversity Effects on Multi-scale Stability in Grasslands. (*in preparation*) | |
| 1. **Liang, M.**,Chen, J., & John, R. (2023). Woody Plants Encroachment Shapes Livestock Composition on the Mongolia Plateau: An Insight from Nomadic Legacies. (*in preparation*) | |
| 1. **Liang, M.**, Smith N.G., Chen, J., Jia, C., Miao, B., & Liang, C. (2023). Convergent Responses of Plant Respiration to Abiotic Drivers in a Shrub-dominated Desert. (*in preparation*) | |
| ***Book chapters*** | |
| 1. Liang C., Wang Y., Jia C., **Liang M.**, & Liu X. (2012). Vegetation Map of Helan Mountain (1:250,000). *The Vegetation of Helan Mountain*. Sunlight Press: Yin Chuan. | |

**SELECTED PRESENTATION** (**#** is presenter)

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| 2022 | **Liang, M. #**,Lamy, T.,Reuman, D.C., Wang, S., Bell, T.W., Cavanaugh, K.C.,Castorani, M.C.N. (2022). A Marine Heatwave Changes the Stabilizing Effects of Biodiversity. 106th Annual Meeting of Ecology Society of America. Montréal, Québec, Canada. August 14th - 19th, 2022. (**Virtually Oral**) |
| 2022 | **Liang, M. #**, Liang, C., Hautier Y., Wilcox R.K., Wang S. (2022). Grazing-Induced Biodiversity Loss Impairs Grassland Ecosystem Stability at Multiple Scales. Asian Grassland Conference, April 19th – 22nd, 2022. (**Virtually Oral**) |
| 2022 | **Liang, M. #** (2022). The Diversity-Stability Relationships (DSRs) in Real-world Ecosystems. (**Guest Lecture** for Spatial Ecology class in the Department of Environmental Sciences at the University of Virginia) Charlottesville, U.S.A. March 3rd, 2022. (**Oral**) |
| 2020 | **Liang, M. #**,Liang, C., Wang, S. (2020). Grazing Impairs Biodiversity and Stability Across Scales in a Temperate Grassland. 105th Annual Meeting of Ecology Society of America. Salt Lake, U.S.A. August 3rd - 6th, 2020. (**Virtually Oral**) |
| 2018 | **Liang, M. #**, Chen, J., Gornish, E.S., Liang, C., et al. Grazing Effect on Grasslands Escalated by Abnormal Precipitations in Inner Mongolia. 103rd Annual Meeting of Ecology Society of America. New Orleans, U.S.A. August 5th - 10th, 2018. (**Oral**) |
| 2018 | **Liang, M. #**,Gornish, E.S., Mariotte, P., et al.Identity-dependent Response of Plant Traits to Grazing.Ecology, Evolutionary Biology, and Behavior Research Symposium of Michigan State University. East Lansing, U.S.A. April 30th, 2018. (**Poster**) |
| 2017 | **Liang, M. #**, Chen, J., Bai, X., et al. Effect of Grazing on Plant Functional Groups and Its Consequence on Ecosystem Functions on the Mongolia Plateau. Ecology, Evolutionary Biology, and Behavior Research Symposium of Michigan State University. East Lansing, U.S.A. April 30th, 2017. (**Poster**) |
| 2015 | Miao, B., **Liang, M. #**, Liang, C., et al. Spatial-temporal Pattern of Vegetation Productivity and Its Response to Drought from 1982 to 2011 in Inner Mongolia. Conference on Grassland Resources and Grassland Ecology of Chinese Grassland Society and The Fifth Graduate Forum for Grassland Science. Chongqing, China. November 11th - 15th, 2015. (**Oral**) |
| 2015 | **Liang, M.\***, Bai, X., Liang, C., et al. CO2 Flux Characteristics and Dynamics of Different Species in the Desert Shrub Ecosystems of Alxa. The 8th International Symposium on Modern Ecology (ISOME-VIII) & The 6th International Young Ecologists Forum (IYEF-VI). Tianjin, China. June 11th - 14th, 2015. (**Oral**) |
| 2015 | **Liang, M. #**, Bai, X., Liang, C., et al. CO2 Flux Characteristics and Dynamics of Different Species in the Desert Shrub Ecosystems of Alxa. The Second Graduate Forum on Global Change in China &Tsinghua University #418 Doctoral Academic Forum. Beijing, China. June 06th - 07th, 2015. (**Oral**) |
| 2014 | The 5th China-Japan-Korea Grassland Conference. Changchun, China. August 20th - 24th, 2014. (**The Best Poster Award**) |
| 2013 | The 9th National Membership Conference& 2013 Annual Conference of Chinese Ecological Society. Nanchang, China. October 19th - 21st, 2013. (**Attended**) |
| 2013 | The 7th International Symposium on Modern Ecology (ISOME-VII) & The 4th International Young Ecologists Forum (IYEF-IV). Guangzhou, China. June 09th - 16th, 2013. (**Attended**) |

**MENTORING EXPERIENCE**

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| ***Committee member*** | | |
| 2022 – 2024 | **Chinese Academy of Sciences**, Institute of Applied Ecology  (P.I.: Dr. Chao Wang) | Beijing, China |
|  | Xiaoyi Huang (Master student) |  |
| ***Mentoring (research) assistant*** | | |
| 2019 – 2021 | **Peking University**, College of Urban and Environmental Sciences  (P.I.: Dr. Shaopeng Wang) | Beijing, China |
|  | Yin Yan (Master student) |  |
| 2020 – 2021 | **Tsinghua University**, School of Civil Engineering  (P.I.: Dr. Dawen Yang) | Beijing, China |
|  | Xinxin Pang(Doctoral student) |  |
| 2015 – 2021 | **Inner Mongolia University**, School of Ecology and Environment  (P.I.: Dr. Cunzhu Liang) | Hohhot, China |
|  | Yantao Wu (Doctoral student), 2017 – 2021 |  |
|  | Zijing Li (Doctoral student), 2018 – 2020 |  |
|  | Zhiwei Guo (Master student), 2016 – 2019 |  |
|  | Yabo Shi (Master student), 2015 – 2016 |  |
|  | Dongsheng Xie (Master student), 2015 – 2016 |  |
|  | Lihong Qiao (Master student), 2015 – 2016 |  |
|  | Junwu Fang (Master student), 2015 – 2017 |  |
|  | Fei Lin (Master student), 2015 – 2017 |  |
|  | Xu Wang (Master student), 2015 – 2017 |  |
| 2012 – 2015 | **Inner Mongolia University**, College of Life Science  (P.I.: Dr. Cunzhu Liang) | Hohhot, China |
|  | Shaohuan Yang (Master student), 2012 – 2015 |  |
|  | Zihe Zhang (Undergraduate), 2014 – 2015 |  |

**TEACHING EXPERIENCE**

|  |  |  |
| --- | --- | --- |
| 2020 – 2021 | **Peking University**, College of Urban and Environmental Sciences | Beijing, China |
|  | * Teaching Assistant |
|  | *Preparing ecological examples for the lecture involved statistics methods (ANOVA, LMMs, regressions, SEM, Bayesian, time-series analysis, etc.) and programming R code for practices in Ecological Statistics, which was open for both undergraduates and graduates.* |  |
| 2013 – 2016 | **Inner Mongolia University**, School of Ecology and Environment | Hohhot, China |
|  | * Workshop Leader |
|  | *Measuring and monitoring CO2 fluxes from individual plants to ecosystem (LI-COR 6400, 7000, and 8100;* ***two weeks/year****).* |  |
|  | * Fieldwork Instructor |  |
|  | *Sampling soil, aboveground biomass, and root biomass in the field (****one week/year****).* |  |
|  | * Laboratory Instructor |  |
|  | *Processing soil and plant samples (****four weeks/year****).* |  |

**RESEARCH EXPERIENCE**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **University of Arizona** | | | | | | Tucson, AZ US | | | | | |
| Nov. 2018 | * Restoration Management in Rangelands | | | | |  | | | | | |
| *Planting seeds for restoration experiments at the Santa Rita Experimental Range, Arizona* | | | | |
| **Michigan State University** | | East Lansing, MI US | | | | | | | | | |
| Apr. 2017 | * Aboveground Biomass and Mortality Rates in Forests | | | | |  | | | | | |
|  | *Forest inventory investigations in Oak Openings Preserve, Ohio* | | | | |  | | | | | |
| Mar. 2017 | * Long-term Root Production in the Biofuel Cropping Ecosystems | | | | |  | | | | | |
|  | *Collecting root cores in bioenergy systems at The W.K. Kellogg Biological Station, Michigan* | | | | |  | | | | | |
| **Inner Mongolia University** | | | | Hohhot, China | | | | | | | |
| 2011 – 2019 | * Long-term Grazing Experiment at the Typical Steppe of Inner Mongolia | | | | | Xilin Gol, China | | | | | |
| *Conducting the experiments and monitoring biodiversity, community assembly, carbon cycle, and phenology monitoring, intermittent work for* ***15 months*** | | | | |
| 2011 – 2016 | * Long-term Ecological Observation at the Inner Mongolia Grassland Ecosystem Research Station (IMGERS) | | | | | Xilin Gol, China | | | | | |
|  | *Monitoring biodiversity, community assembly, and phenology monitoring, intermittent work for* ***15 months*** | | | | |  | | | | | |
| 2011 – 2013 | * Long-term Nutrient Addition Experiment at the Meadow Steppe of the Northeast of China | | | | Hulunbuir, China | | | | | | |
| *Phenology observation, vegetation investigation, and carbon cycle monitoring, intermittent work for* ***four months*** | | | | | |  | | | | |
| 2011 – 2013 | * Grasslands at Northeast of China | | | | Hulunbuir, China | | | | | | |
|  | *Phenology observation, vegetation investigation, and carbon cycle monitoring, intermittent work for* ***two months*** | | | | | |  | | | | |
| 2012 – 2013 | * Alxa Shrubland Desert of the Northwest of China | | | | | Alxa, China | | | | | |
| *Monitoring carbon/water fluxes, intermittent work for* ***six months*** | | | | | | | |  | | |
| 2012 – 2013 | * Shrubland Desert at Northwest of China | | Alxa/Gansu/Ningxia, | | | | | | | | |
|  | *Soil and vegetation, intermittent work for* ***three months*** | | | | China | | | | | | |
| Aug. 2014 | * Grasslands and Deserts of Central and Western Mongolia | | | | | | | Mongolia | | | |
| *Monitoring biodiversity and community assembly for* ***three weeks*** | | | | | | | | |  | |
| Aug. 2013 | * Alpine Meadows of the Tibetan Plateau | | | | | | Tibet, China | | | | |
| *Monitoring biodiversity and community assembly for* ***three weeks*** | | | | | | | | | |  |

**PROFESSIONAL SERVICES & AFFILIATIONS**

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| --- | --- |
| 2020 – present | **Subject-matter Editors,** *Ecology* |
| 2020 – present | **Associate Editor,** *Ecology and Evolution* (18) |
| 2018 – present | **Peer-Reviewed Journals (in total 28)**:  *Science* (1);  *Ecology Letters* (2);  *Ecology* (1);  *Journal of Ecology* (3);  *Journal of Applied Ecology* (3);  *Oikos* (1);  *Agricultural and Forest Meteorology* (1);  *Catena* (1);  *Ecosystems* (2);  *Functional Ecology* (1);  *Communications Biology* (1);  *Elementa: Science of the Anthropocene* (1);  *Frontiers in Plant Science* (1);  *Journal of Plant Ecology* (1);  *Rangeland Ecology and Management* (1);  *Restoration Ecology* (1);  *Western North American Naturalist* (1);  *Ecosystem Health and Sustainability* (1);  *Ecology and Evolution* (2);  *Ecosphere* (2). |
| 2018 – present | **Memberships:** Ecology Society of America (Asian Ecology, Ecological Restoration, and Rangeland Ecology sections). |
| 2018 – present | **Abstract Review:** Ecology Society of America (Salt Lake, 2020; Virtual, 2021; Montréal, 2022) |
| Aug. 2018 | **Session Moderator:** Grasslands/Steppe in ESA, New Orleans, 2018. |
| Aug. 2018 | **Volunteer:** ESA, New Orleans, 2018. |

**RESEARCH GRANTS**

|  |  |
| --- | --- |
| 2020 – 2022 | Grazing Effects on Carbon and Water Use Efficiency in Grasslands (**Principal Investigator**) |
|  | *Open Project of Ministry of Education Key Laboratory of Ecology and Resources Use of the Mongolian Plateau on carbon cycling in grasslands, ¥ 80,000.* |
| 2016 – 2019 | Management Technologies and Demonstrations of Desertification and Degraded Grasslands (**Participant**) |
|  | *National Key Research and Development Program of China on the management technologies and demonstrations of grazing or climatic-induced desertification and degraded grasslands (in charge of typical steppe regions in Xilin Gol).* |
| 2014 – 2016 | Plant Adaptation in Desert Environments. (**Principal Investigator**) |
|  | *Graduate Innovation Project on the advantage of Inner Mongolia Autonomous Region, ¥ 30,000.* |
| 2013 – 2016 | Technology Development and Application for Adapting to Climate Change in Northern China. (**Participant**) |
|  | *National Key Technology R&D Research Program on the development and demonstration of grazing technologies based on climatic fluctuations and productivity in grasslands (in charge of typical steppe regions in Xilin Gol).* |
| 2011 – 2014 | [The Primary Process of Carbon Cycling and Mechanisms of Carbon Sinks in Typical Ecosystems, China](https://www.linkedin.com/vsearch/p?title=The+typical+ecosystem+carbon+cycling+and+carbon+sinks+primary+process+mechanism%EF%BC%8CChina&trk=prof-exp-title). (**Participant**) |
|  | *National Key Basic Research Program (973) on nitrogen addition and fertilization, net primary productivity, soil respiration, and net ecosystem CO2 exchange (in charge of typical steppe regions in Xilin Gol).* |
| 2011 – 2014 | [Ecosystem Carbon Sequestration Rate, Mechanisms, and Potential](https://www.linkedin.com/vsearch/p?title=The+ecosystem+carbon+sequestration+rate%2C+mechanisms+and+potential&trk=prof-exp-title). (**Participant**) |
|  | *Chinese Academy of Science Project on carbon pools of vegetation and soil in the Western-Alxa Desert of Inner Mongolia.* |
| 2011 – 2014 | Characteristics and Mechanisms of Carbon Pools in Degraded Grasslands of Inner Mongolia. (**Participant**) |
|  | *National Natural Science Foundation of China (in charge of typical steppe regions in Xilin Gol).* |

**SCHOLARSHIPS & AWARDS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2022 | Early Career Publication Award  (Ecological Restoration section) | | | Ecology Society of America |
| 2017 | Academic Excellence Scholarship | | | Inner Mongolia University |
| 2016 | Inner Mongolia Autonomous Region Scholarship | | | Inner Mongolia University |
| 2016 | National Scholarship Fund (**Visiting Scholar**) | | | China Scholarship Council |
| 2015 | Inner Mongolia Autonomous Region Scholarship | | | Inner Mongolia University |
| 2015 | Yang Hanxi Career Enhancement Award | | The 6th Int’l Young Ecologists Forum | |
| 2014 | Inner Mongolia Autonomous Region Scholarship | | | Inner Mongolia University |
| 2014 | Academic Excellence Scholarship | | | Inner Mongolia University |
| 2014 | The Best Poster Award | The 5th China-Japan-Korea Grassland Conference | | |

**QUALIFICATION & SKILLS**

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| **Languages:** | English (C2 (**Very Proficient**), CESL-OPI at University of Arizona, 2018);  Mandarin (**Native**). |
| **Technical:** | Statistics (R, SPSS, AMOS, and SigmaPlot);  Visualizations(Adobe Photoshop, 3ds Max, Auto CAD, and Arc GIS). |