

J. Gonzalo N. Irisarri
Asst Professor of Rangeland Ecology
Department of Ecosystem Science and Management,
University of Wyoming
jirisarr@uwyo.edu

Education and Training

2014-2015. University of Wyoming/USDA, Post-doc in Rangeland Ecology.
2012. Universidad de Buenos Aires-ARG (UBA), Agricultural sciences, PhD.
2008. Universidad de Buenos Aires-ARG (UBA), Natural Resources management, MSc,
2004. Universidad de Buenos Aires-ARG (UBA), Agricultural sciences, Agric. Engineer.

Academic and research experience

2024-present. University of Wyoming
2021-2024, Rothamsted Research, UK, Researcher
2015-2021, National Research Council, Argentina (CONICET), Researcher
2015-2021, UBA Argentina, Range management, lecturer
2006-2015, UBA Argentina, Range management, teaching assistant

Professional experience

2006-2018, Range management consultant for CTSA (Benetton Group) Patagonia, Argentina

Undergraduate and Graduate student fellows

Postgraduate student supervisor

2023. Matias Curcio.
2021. Juan Mattera.
2019. Leticia Castro Sardiña.
2017. Roman Heiler.

Undergraduate student supervisor

2019. M. Celina Laplacette.
2018. Jimena Saucedo.
2017. Luis R. Merlo.
2015. Tamara Leibovich.
2013. María Belén Bosco.

Honors and Awards

2015. Conservation Fund Award, Banco Galicia ARG.

Research grants experience

2023-2028. Biotechnology and Biology Sciences Research Council (BBSRC, UK). Resilient Farming Futures Institutional Strategic Program. CoI
2023-2026. Biotechnology and Biology Sciences Research Council (BBSRC, UK). Sensing Oats with APsim. CoI
2023-2028. Biotechnology and Biology Sciences Research Council (BBSRC, UK). AgZero+: Towards Net Zero in Agriculture. CoI
2023-2028. Alan Turing Research Centre, UK. Digital Twins in Agriculture. CoI
2016-2018. University of Buenos Aires (Young Scientist Grant). Long-term primary productivity dynamics across steppes of Patagonia PI
2016-2018. Federal Research Council Argentina (Young Scientist Grant). Primary productivity spatial and temporal variations across meadows of Patagonia. PI

2019-2020. University of Buenos Aires strategic grants. A web app for Grass-fed grazing systems. PI

Synergistic Activities

2022. Software development: Google Earth Engine APP for crude protein estimation: <https://irisarri.users.earthengine.app/view/contenido-proteina-cruda>.

Publications (Last five years. [Complete list](#))

31. Segura, C., Neal, A. L., Castro-Sardiña, L., Harris, P., Rivero, M. J., Cardenas, L. M., & Irisarri, J. G. N. (2024). Comparison of direct and indirect soil organic carbon prediction at farm field scale. *Journal of Environmental Management*, 365, 121573.
30. Curcio, M., Irisarri, J. G. N., García Martínez, G., & Oesterheld, M. (2023). Trends of aboveground net primary productivity of Patagonian meadows, the omitted ecosystem in desertification studies. *Remote Sensing*, 15(10), 2531.
29. Sardiña, L. C., Irisarri, J. G. N., & Texeira, M. (2023). Climate factors rather than human activities controlled NDVI trends across wet meadow areas in the Andes Centrales of Argentina. *Journal of Arid Environments*, 214, 104983.
28. Paruelo, J. M., Oesterheld, M., Altesor, A., Piñeiro, G., Rodríguez, C., Baldassini, P., Irisarri, J. G. N., López-Mársico, L., & Pillar, V. D. Grazers and fires: Their role in shaping the structure and functioning of the Río de la Plata Grasslands. *Ecología Austral*, 32(2), 784-805.
27. Della Nave, F. N., Ojeda, J. J., Irisarri, J. G. N., Pembleton, K., Oyarzabal, M., & Oesterheld, M. (2022). Calibrating APSIM for forage sorghum using remote sensing and field data under sub-optimal growth conditions. *Agricultural Systems*, 201, 103459.
26. Irisarri, J. G. N., Cipriotti, P. A., Texeira, M., & Curcio, M. H. (2022). Trends in ANPP response to temperature in wetland meadows across a subcontinental gradient in Patagonia. *Meteorology*, 1(2), 220-230.
25. Baldwin, T., Ritten, J.P., Derner, J.D., Augustine, D.J., Wilmer, H., Wahlert, J., Anderson, S., Irisarri, J. G. N., Peck, D.E., (2022). Stocking rate and marketing dates for yearling steers grazing rangelands: Can producers do things differently to increase economic net benefits?. *Rangelands*, 44(4), 251-257.
24. Irisarri, J. G. N., Durante, M., Derner, J. D., Oesterheld, M., & Augustine, D. J. (2022). Remotely sensed spatiotemporal variation in crude protein of shortgrass steppe forage. *Remote Sensing*, 14(4), 854.
23. Irisarri, J. G. N., Texeira, M., Oesterheld, M., Verón, S. R., Della Nave, F., & Paruelo, J. M. (2021). Discriminating the biophysical signal from human-induced effects on long-term primary production dynamics. The case of Patagonia. *Global Change Biology*, 27(18), 4381-4391.

22. Irisarri, J. G. N., & Oesterheld, M. (2020). Temporal variation of stocking rate and primary production in the face of drought and land use change. *Agricultural systems*, 178, 102750.