

Gennady Bracho Mujica

Year of Birth: 1981, Gender: Female, Nationality: Venezuelan

Department of Crop Sciences, Faculty of Agricultural Sciences, Georg-August-Universität Göttingen

Curriculum Vitae

Academic Education

2013 – 2018 Ph.D. in Sciences, The University of Adelaide, Australia

2006 – 2009 M.Sc., Agricultural Engineering, Universidad Central de Venezuela, Venezuela

1999 – 2005 B.Sc. Hons, Agricultural Engineering, Universidad Central de Venezuela, Venezuela

Professional Career

Since 8/2018 Postdoctoral researcher, Tropical Plant Production and Agricultural Systems Modelling (TROPAGS), Faculty of Agricultural Sciences, Georg-August-University Göttingen

2013 – 2017 Researcher, Spatial Information Group, School of Biological Sciences, The University of Adelaide, Australia

2006 – 2018 Lecturer and researcher, Agroclimatology, Universidad Central de Venezuela, Venezuela

2005 Climate information analyst

2001 – 2005 Teaching assistant, Agroclimatology, Universidad Central de Venezuela, Venezuela

Fellowships, Awards, and Honours

2013 – 2018 Ph.D. scholarship, Australia Awards

2002 – 2004 B.Sc. scholarship, Fundayacucho Awards

Research Interests

I am an agronomist with experience in tropical and temperate climates. My research interests are in quantifying and understanding crop impacts and responses to extreme weather events, based on experimentation and agro-ecosystem modeling - to contribute with solutions to better address current and future environmental challenges.

Publications

Dueri, S., Brown, H., Asseng, S., Ewert, F., Webber, H., George, M., Craigie, R., Guarin, J. R., Pequeno, D., Stella, T., Ahmed, M., Alderman, P. D., Basso, B., Berger, A. G., Mujica, G. B., Cammarano, D., Chen, Y., Dumont, B., Rezaei, E. E., Fereres, E., ... Martre, P. (2022). *Simulation of winter wheat response to variable sowing dates and densities in a high-yielding environment*. *Journal of Experimental Botany*, 73(16), 5715–5729. <https://doi.org/10.1093/jxb/erac221>

- Dewi E.S., Abdulai I., Bracho-Mujica G., Rötter R.P. (2022). *Salinity Constraints for Small-Scale Agriculture and Impact on Adaptation in North Aceh Indonesia*. *Agronomy*, 12(2):341. <https://doi.org/10.3390/agronomy12020341>
- Bracho-Mujica, G., Hayman, P.T., Sadras, V.O., Ostendorf, B. (2021). *A method for simulating risk profiles of wheat yield in data-sparse conditions*. *The Journal of Agricultural Science*, 158 (7): 1-12. <https://doi.org/10.1017/S0021859621000253>
- Rötter, R.P., Scheiter, S., Hoffman, M.P., Pfeiffer, M., Nelson, W.C.D., Ayisi, K., Taylor, P., Feil, J-H, Bakhsh, S.Y., Isselstein, J., Linstaedter, A., Behn, K., Westphal, C., Odhiambo, J., Twine, W., Grass, I., Merante, P. , Bracho-Mujica, G. , Bringhenti, T., Lamega, S., Abdulai, I, Lam, Q.D. , Anders, M., Linden, V., Weier, S., Foord, S., Erasmus, B. (2021). *Modeling the multifunctionality of African savanna landscapes under global change*. *Land Degradation & Development*, 32: 2077-2081. <https://doi.org/10.1002/ldr.3925>
- Bracho-Mujica G., Hayman P. T. & Ostendorf B. 2019, *Modelling long-term risk profiles of wheat grain yield with limited climate data*, *Agricultural Systems* (173): 393-402. <https://doi.org/10.1016/j.agry.2019.03.010>
- Bracho-Mujica G., Hayman P. T., Sadras V. O. & Ostendorf B. 2019, *Simple scaling of climate inputs allows robust extrapolation of modelled wheat yield risk at a continental scale*, *Climate Risk Management* (23): 101-113. : <https://doi.org/10.1016/j.crm.2018.11.002>
- Lobo, D, Verbist, K, Gabriels, D, Puche, M, Bracho, G, Soto, G, & Santibañez, F 2012, *Zonation of hydric regimens in Venezuela based on rainfall characteristics*, EGU General Assembly Conference Abstracts, vol. 14, p. 378.
- Bracho, G, 2010, *Estimation of global solar radiation in Venezuela*, Master Thesis, Agricultural Engineering degree, Faculty of Agronomy, The Central University of Venezuela, Maracay.
- Bracho, G, and Puche, M, 2008, *Limitations due to weather data quality on the use of the FAO P-M equation for generating reference evapotranspiration maps in Venezuela*. International workshop: Modernisation of Irrigation and the use of information technologies, Synthesis Results, La Paz, Bolivia, Eds. Ruiz, E, Pereira, Luis.
- Bracho, G 2005, *Characterisation of the thermal regime of the experimental stations of the Faculty of Agronomy*, Honours thesis, Faculty of Agronomy, The Central University of Venezuela, Maracay.