

## **Thomas Bringhenti**

Year of Birth: 1992, Gender: Male, Nationality: Italian

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

### **Curriculum Vitae**

#### **Academic Education**

- Since 2019 Ph.D. in Agricultural Science, Georg-August-University of Göttingen
- 2015 – 2018 M.Sc. in Sustainable International Agriculture, Georg-August-University of Göttingen
- 2011 – 2015 B.Sc. in Agricultural Science and Agricultural Technology, Free University of Bolzano-Bozen (Italy)

#### **Professional Activities**

- Since 2021 Administrative coordination of BMBF-funded joint research project “South African Limpopo Landscapes Network” (SPACES II - SALLnet)
- Since 2019 Scientific assistant at the TROPAGS division of the Georg-August-University of Göttingen: planning and conducting experiments on the water use and productivity of macadamia trees in South Africa; support in teaching of several modules (“Crop Modelling for Risk Management”, “Experimental Techniques in Tropical Agronomy”, “Exercises: Linking Models and Experimentation”, “Management of Tropical Plant Production Systems”)
- 2018 Scientific assistant at the TROPAGS division of the Georg-August-University of Göttingen: coordination in the development of a blended e-learning module on “Crop Modelling for Risk Management”
- 2017 – 2018 Student assistant at the TROPAGS division of the Georg-August-University of Göttingen

#### **Fellowships, Awards, and Honours**

- 2017 DAAD scholarship for a short time research period in South Africa (3 months)
- 2016 – 2017 Deutschlandstipendium – scholarship for “high-achieving and committed students at German universities”

#### **Research Interests**

Sustainable crop production in the tropics and subtropics; Plant species diversity in homegardens; Food security; Agroforestry systems; Eco-physiology of macadamia trees; Water use behavior of perennial trees; Water use efficiency and management of irrigation.

## Papers

1. Nelson, W.C.D., Hoffmann, M.P., May, C., Mashao, F., Ayisi, K., Odhiambo, J., **Bringhenti, T.**, Feil, J.H., Yazdan Bakhsh, S., Abdulai, I. & Rötter, R.P. (2022): Tackling climate risk to sustainably intensify smallholder maize farming systems in southern Africa. *Environmental Research Letters*, 17, 75005, <https://doi.org/10.1088/1748-9326/ac77a3>.
2. Rötter, R., Scheiter, S., Hoffmann, M., Pfeiffer, M., Nelson, W., Ayisi, K., Taylor, P., Feil, J.-H., Yazdan Bakhsh, S., Isselstein, J., Linstädter, A., Behn, K., Westphal, C., Odhiambo, J., Twine, W., Grass, I., Merante, P., Bracho-Mujica, G., **Bringhenti, T.**, Lamega, S., Abdulai, I., Lam, Q., Anders, M., Linden, V., Weier, S., Foord, S., Erasmus, B.F. (2021): Letter-to-the-Editor: Modeling the multi-functionality of African savanna landscapes under global change. *Land Degradation & Development*, <https://doi.org/10.1002/ldr.3925>.

## Oral presentations and posters at conferences

1. SAMAC Macadamia Day 2022: **Bringhenti, T.**, Joubert, E., Rötter, R.P.: Improving water use efficiency of macadamia orchards in South Africa. SAMAC Macadamia Day 2022, 11-12 October 2022, White River, South Africa (pre-recorded oral presentation).
2. Tropentag 2022: **Bringhenti, T.**, Abdulai, I., Hoffmann, M.P., Moriondo, M., Joubert, E., Taylor, P.T., Foord, S., Rötter, R.P.: Improving water use efficiency for a more sustainable production of Macadamia ssp. in South Africa. Tropentag 2022, 14-16 September 2022, Prague, Czech Republic (oral presentation).
3. SALLnet Final Meeting 2022: **Bringhenti, T.**, Weier, S., Taylor, P.T.: Management recommendations for a more sustainable macadamia cultivation. SALLnet Final Meeting: Stakeholder day, 21 June 2022, Tzaneen, South Africa (oral presentation).
4. SPACES II Synthesis Meeting 2022: Rötter, R.P., Scheiter, S., **Bringhenti, T.**: Integrating groundwork and modelling to assess the multi-functionality of African savanna landscapes under climate change. SPACES II Project Synthesis Meeting, 14 June 2022, Pretoria, South Africa (oral presentation).
5. WeatherSMART 2020: **Bringhenti, T.**, May, C., Nelson, W.C., Ayisi, K.K., Recktenwald, C., Bracho-Mujica, G., Rötter, R.P. (2020). Feasibility of smallholder adaptation strategies to climate change in Limpopo, South Africa. 3<sup>rd</sup> Annual WeatherSMART Science-Stakeholder Conference, 23-24 March 2020, Centurion, South Africa (abstract accepted for oral presentation).
6. EGU2020: Rötter, R., Nelson, W., Isselstein, J., Scheiter, S., Pfeiffer, M., Hoffmann, M., Ayisi, K., Linstädter, A., Behn, K., Westphal, C., Grass, J., Feil, J., Odhiambo, J., Taylor, P., Twine, W., Merante, P., Bracho Mujica, G., **Bringhenti, T.**, Lamega, S., Yazdan Bakhsh, S., Krieger, W., Linden, V., Weier, S., Erasmus, B. (2020). Modelling impacts of climate change and alternative management interventions on the multi-functionality of agricultural landscapes in southern Africa. EGU2020 General Assembly: Sharing Geoscience Online, 4-8 May 2020, online (oral presentation).
7. NCGC2018: Rötter, R.P., Erasmus, B.F.N., Isselstein, J., Ayisi, K., **Bringhenti, T.**, Bruemmer, B., Feil, J.-H., Fichtler, E., Foord, S., Grass, I., Hoffmann, M., Koch, M., Linstädter, A., Odhiambo, J., Pfeiffer, M., Scheiter, S., Taylor, P., Swanepoel, L., Twine, W., Westphal, C. New methodologies for analyzing alternative future scenarios of multi-functional land use in the framework of SPACES-SALLnet: the South African Limpopo Landscapes Network. 4th National Conference on Global Change, 3-6 December 2018, Polokwane, South Africa (oral presentation).

8. Tropentag 2018: **Bringhenti, T.**, Hoffmann, M.P., Ayisi, K.K., Beushausen, W., Koch, M., Rötter, R.P. (2018). Understanding Variations in Plant Species Diversity in Homegardens of Smallholder Farms in Limpopo, South Africa. Tropentag 2018, 17-19 September 2018, Ghent, Belgium (poster presentation).
9. Tropentag 2018: Beushausen, W., Hoffmann, M.P., Ayisi, K.K., **Bringhenti, T.**, Rötter, R.P. (2018). Homegarden Food Production and Diet Composition in Rural Limpopo Province, South Africa. Tropentag 2018, 17-19 September 2018, Ghent, Belgium (poster presentation).
10. Plant Biology Europe 2018: Rötter, R.P., Koch, M., Moshelion, M., Appiah, M., Hau, S.V., **Bringhenti, T.**, Iguarta, E., Schulman, A. Modelling yield and water use of isohydric and anisohydric barley cultivars at a Nordic and a Mediterranean site in Europe. Plant Biology Europe 2018, 18-21 July 2018, Copenhagen, Denmark (poster presentation).