UNIVERSITY OF THE FREE STATE
UNIVERSITEIT VAN DIE VRYSTAAT
YUNIVESITHI YA FREISTATA

UFS
NATURAL AND AGRICULTURAL SCIENCES
SOIL, CROP AND CLIMATE SCIENCES

Short CV

Elmarie van der Watt, PhD

Position: Senior Lecturer: Agronomy

Courses Presented

AGRI 1514 – Biological Principles in Agriculture – Undergraduate

SCCS 2624 – Crop development – Undergraduate

CROP 4814 – Crop and Stress Physiology – Undergraduate

SCCS 4808 – Research module – Undergraduate

Research Focus (a few terms or phrases that together sum up your research interests and activities, example below)

Stress and crop physiology with an emphasis on drought, heat, and salt stress. Chemical manipulation of crops with the aim of yield improvement as well as increased tolerance against biotic and abiotic stress conditions. Extraction and screening of South African plants for their application potential in the agricultural industry and their development as natural products in agriculture

Most Recent Publications

1. Z.P. Khetsha[1], M.M. Sedibe[1], R.J. Pretorius[1] and E. Van Der Watt[2] (2023). Biostimulants improve the leaf micro-morphology and essential oil biosynthesis of simulated hail-damaged *Pelargonium graveolens* (L'Hér.). Acta Hortic. 1372. ISHS 2023. DOI 10.17660/ActaHortic.2023.1372.37 XXXI IHC – Proc. Int. Symp. Adaptation of Horticultural Plants to Abiotic Stresses Eds.: F. Liu and B. Wenden (accepted)

2. Mota, M. M. – Van der Watt, W.[*]– Khetsha, Z. P. (2024) Brassinosteroids improves the yield and morpho-physiological characteristics of *Arachis hypogaea* (L.), *Glycine max* (L.) and *Phaseolus vulgaris* (L.). Applied Ecology and Environmental Research 22(1): 355-

371. http://www.aloki.hu ● ISSN 1589 1623 (Print) ● ISSN 1785 0037 (Online) DOI: http://dx.doi.org/10.15666/aeer/2201_355371

3. Kenoni Moyo, EVan Der Watt, Maxson Masowa, Karabelo Moloantoa John Unuofin and Zenzile Khetsha (2024) Eco-organic system and silicon-based biostimulant as a strategy for vegetable 1 production under. 2 multistress conditions in South Africa: A short review. *Journal of Applied Horticulture, 26(1)*: *83-89, 2024 https://doi.org/10.37855/jah.2024.v26i01.16*
4. E Van Der Watt, Maxson Masowa, Karabelo Moloantoa, John Unuofinand Zenzile Khetsha (2024) Phytohormone-based biostimulants as an alternative mitigating strategy for horticultural plants grown under adverse multi stress conditions: Common South African stress factors". Caraka Tani: Journal of Sustainable Agriculture, 39(1), 000-000, 2024 URL: https://jurnal.uns.ac.id/carakatani/article/view/80530 DOI: http://dx.doi.org/10.20961/carakatani.v39i1.80530

Fun Fact

Qualified as student teacher and judge in line dance