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| Grain Crops Institute,  Agricultural Research Council,  Potchefstroom,  South Africa.  2520 | Phone :  Office - 018 299 6224  Cell - 0843808568  E-mails:  BelloZ@arc.agric.za, kunle202ng@yahoo.com |

Zaid Adekunle Bello

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| Personal Information | | | Gender: Male  Marital status: Married  Language: English  Citizenship: Permanent South African Resident | |
| Education | | | ***PhD: Agrometeorology/Agronomy***  2013 University of the Free State, Bloemfontein, South Africa  ***MSc (Agric): Agronomy (Crop Science)***  2008 University of Pretoria, Pretoria, South Africa  ***B. Agric (Plant Science)***  2000 Obafemi Awolowo University, Ile-Ife, Nigeria | |
| Professional Experience | | | ***Researcher***  2019 Grain Crops Institute, Agricultural Research Council, Potchefstroom, South Africa  Activities   * Research proposal development and submissions * Planning and conducting research * Supervision and Management of the experimental plots * Research output reporting, * Writing, presentation and development of manuscript for publication of   research outputs   * Training and developments * Students mentoring   ***Researcher***  2019 January – October University of the Free State, Bloemfontein, South Africa  Activities   * Planning and conducting research * Supervision and Management of the experimental plots * Post graduate students mentoring * Teaching crop modelling practical classes (LWR 616)   ***Post-doctoral fellow***  2013 – 2018 University of the Free State, Bloemfontein, South Africa  Activities   * Planning and conducting research * Calibration of soil water monitoring probes * Glasshouse experiment management * Supervision and Management of the experimental plots * Field practical assistance for student * Post graduate students’ supervision * Teaching soil science practical classes (Soil Physics and Irrigation management:   GKD 434)  ***Researcher assistant***  2008 – 2013 University of the Free State, Bloemfontein, South Africa  Activities   * Planning and conducting research * Supervision and Management of the experimental plots   ***Agriculture Officer***  2002 – 2004 Iseyin Local Government, Iseyin, Nigeria  Activities   * General Farm Administration * Management of Local Government Arable Fields (cassava, maize, and yam) * Supervision and Management of Horticultural Farm   (Production of watermelon, cucumber and lettuce)   * Extension Services for Rural Farmers Under the State Government Directives * Coordination and Establishment of Local Government Teak Forest Reserve   ***Lecturer***  2000 – 2002 College of Agriculture, Zuru, Nigeria  Activities  Taught the following courses:   * Cash Crops Establishment and Management (Crop production) * Arable Farming | |
| Research Outputs | | | ***PEER REVIEWED PUBLICATIONS***   * Tshikalange, B., Ololade, O.O., Jonas, C. & Bello, Z.A., 2022. Effectiveness of cattle dung biogas digestate on spinach growth and nutrient uptake. Heliyon, 08. * Bello, Z.A., van Rensburg, L.D., Dlamini, P., Tfwala, C.M. & Tesfuhuney, W., 2022. Characterisation and effects of different levels of water stress at different growth stages in malt barley under water-limited conditions. Plants (MDPI), 11, 578. * Sedibe, M., Akakpo, P., Bello, Z., Khetsha, Z., Mudau, F. & Theka-Kutumela, M., 2021. Potassium fertigation to enhance the performance of Hypoxis hemerocallidea. HortScience, 56, 1-9. * Mathinya, V.N., van Rensburg, L.D., Barnard, Bello, Z.A. & van Der Watt, E., 2021. Response of malt barley grain quality characteristics to increasing irrigation water salinity. South African Journal of Plant and Soil, 38, 159-170. * Tfwala, C.M., van Rensburg, L.D., Bello, Z.A. & Zietman, P.C., 2020. Groundwater contribution to transpiration of trees under wet and dry conditions. Irrigation and Drainage, 70, 42-51. * Tshikalange, B., Bello, Z.A. & Ololade, O.O. 2020. Comparative nutrient leaching capability of cattle dung biogas digestate and inorganic fertiliser under spinach cropping condition. Environmental Science and Pollution Research, 27, 3237 – 3246. * Tfwala, C.M., van Rensburg, L.D., Bello, Z.A. & Zietman, P.C., 2019. Transpiration dynamics and water sources for selected indigenous tress under varying soil water content. Agricultural and Forest Meteorology, 275, 296-304. * Bello, Z.A., Walker, S. & Tesfuhuney, W., 2019. Water relations and productivity of two lines of pearl millet grown on lysimeter with two different soil types. Agricultural Water Management, 221, 528-537. * Bello, Z.A., Tfwala, C.M. & van Rensburg, L.D., 2019. Investigation of temperature effects and performance evaluation of a newly developed capacitance probe. Measurement, 140, 269-282. * Bello, Z.A., Tfwala, C.M. & van Rensburg, L.D., 2019. Evaluation of newly developed capacitance probes for continuous soil water measurement. Geoderma, 345, 104-113. * Tfwala, C.M., Bello, Z.A., Zietman, P.C. & van Rensburg, L.D., 2019. Laboratory vs Field calibration of HydraSCOUT probes for soil water measurement. Pedosphere, 29, 132-136. * Tfwala, C.M., van Rensburg, L.D., Bello, Z.A. & Green, S.R., 2018. Calibration of compensation heat pulse velocity technique for measuring transpiration of selected indigenous trees using weighing lysimeters. Agricultural Water Management, 200, 27-33. * Bello, Z.A. & Walker, S., 2017. Evaluating AquaCrop model for simulating production of amaranthus (*Amaranthus cruentus*) a leafy vegetable, under irrigation and rainfed conditions. Agricultural and Forest Meteorology, 247, 300-310. * Bello, Z.A., Van Rensburg, L.D. & Dlamini, P., 2017. Response of glasshouse grown malt barley yield (*Hordeum vulgare* L.) to water stress. Agronomy Journal, 109, 769-781. * Bello, Z.A. & van Rensburg, L.D., 2017. Development, Calibration and testing of a low cost small lysimeter for monitoring evaporation and transpiration. Irrigation and Drainage, 66, 263-272. * Mjanyelwa, N., Bello, Z.A., Greaves, W. & van Rensburg, L.D., 2016. Precision and accuracy of DFM soil water capacitance probes to measure temperature. Computer and Electronics in Agriculture, 125, 125-128. * Bello, Z.A. & Walker, S., 2016. Calibration and validation of AquaCrop for pearl millet (*Pennisetum glaucum*). Crop and Pasture Science, 67, 948 - 960. * Walker, S., Bello, Z.A., Beletse, Y.G., Mabhaudhi, T. & Modi, A.T., 2013. Calibration of AquaCrop model to predict water requirements of traditional African vegetables. Acta Hort. 1007, 943-950.   ***POPULAR ARTICLES***  Bello, Z., Mofokeng, M.A. and Du Toit, D., 2021. Indigenous crops can help with food security. SA Grain Magazine, 4 October 2021.  ***PUBLISHED PROCEEDINGS***  Bello, Z.A., Walker, S. & Tfwala, C.M., 2011. Influence of water supply and harvesting frequency on production of leafy amaranth in a semi-arid region of South Africa. Proceedings: 10th African Crop Society Conference, 10th- 13th October, Maputo, Mozambique.  ***OTHER PUBLICATIONS***  Bello, Z., Thobakgale, M., Du Toit, P. and Nemadodzi, E., 2021. Climate-Smart Agriculture skills for extension practitioners: Training Manual - Grain Crops. Agricultural Research Council – Grain Crops.  Snijman, W and Bello, Z., 2021 (Ed). Groundnuts – Always tops. Agricultural Research Council-Grain Crops, Potchefstroom, South Africa.  Bello, Z.A, Tfwala, C.N. and Walker, S., 2013. Drought tolerance and water use of Amaranth (*Amaranthus cruentus*) and Pearl Millet. In: Modi, A.T. and Mabhaudhi, T. (eds). Water-use and drought tolerance of selected traditional crops. Water Research Commission (WRC), Report No. 1771/1/13. pp. 79-115.  Mabhaudhi, T., Modi, A.T., Beletse, Y.G., Bello, Z, and Walker, S., 2013. The FAO AquaCrop Model. In: Modi, A.T. and Mabhaudhi, T. (eds). Water-use and drought tolerance of selected traditional crops. Water Research Commission (WRC), Report No. 1771/1/13. pp. 193-199.  Bello, Z, and Walker, S., 2013. Calibration and validation of AquaCrop for amaranth and pearl millet. In: Modi, A.T. and Mabhaudhi, T. (eds). Water-use and drought tolerance of selected traditional crops. Water Research Commission (WRC), Report No. 1771/1/13. pp. 226-254.  Bello, Z.A. 2013. Characterization and modelling of water relations by amaranthus and pearl millet. Ph.D: Agrometeorology/Agronomy. University of the Free State, Bloemfontein, South Africa.  Bello, Z.A., Walker, S. & Tfwala, C.M. 2011. Predicting Pearl Millet response to water under South African climatic conditions. In Ardakanian, R.and Walter, T. (Eds), 2011. Capacity development for farm management strategies to improve crop-water productivity using AquaCrop: Lessons learned.UN-Water Decade Programme on Capacity Development, Knowledge Series No. 7, UNW-DPC, Bonn, p.66.  Bello, Z. A., 2008. Effect of soil nutrient status on growth, reproductive development and yield components of maize in a long-term field trial. MSc (Agric): Agronomy. University of Pretoria, Pretoria, South Africa.  Bello, Z.A., 2000. Effect of poultry manure and inorganic nitrogen fertilizer, on weed incidence, chlorophyll concentration and chemical components of weeds. In partial fulfilment of the Bachelor of science in Agriculture in the Faculty of agriculture, Obafemi Awolowo University, Ile-Ife, Nigeria. | |
| Conference Presentations | | | ***INTERNATIONAL CONFERENCES***  Bello, Z.A & Walker, S, 2018. Application of AquaCrop for prediction of adaptation options for pearl millet production under climate change in South Africa. Oral Presentation: American Society of Agronomy International annual meeting, 4th - 7th, November, 2018, Baltimore, United States.  Walker, S, Karunaratne, A. & Bello, Z.A., 2013. Potential of underutilised crops in adaptation to climate change: Example of bambara groundnut and pearl millet. Oral Presentation: World Irrigation Forum; International Commission on Irrigation and Drainage conference, 29th September – 3rd October, Mardin, Turkey.  Walker, S, Karunaratne, A. & Bello, Z.A., 2013. Production of underutilised crops under climate change scenarios in semi-arid Southern Africa. Oral Presentation: 3rd International Conference on Neglected and Underutilized Species: for a Food-Secure Africa. 25th – 27th September, Accra, Ghana.  Walker, S., Bello, Z.A., Beletse, Y.G., Mabhaudhi, T. & Modi, A.T., 2012. Calibration of AquaCrop Model to Predict Water Requirements of Traditional African Vegetables. Oral Presentation: All African Horticultural Congress, 15th – 20th January, Kruger park, South Africa.  Walker, S., Bello, Z & Beletse, Y., 2012. Prediction of Water Requirement of Amaranth: Calibration of AquaCrop Model. Poster Presentation: AgMIP Sub-Sahara African Workshop, January 16th -20th, Kenya.  Bello, Z.A., Walker, S. & Tfwala, C.M., 2011. Production of leafy amaranth under rainfed and irrigation in a semi-arid region of South Africa. Oral Presentation: 10th African Crop Society Conference, 10th- 13th October, Maputo, Mozambique.  Bello, Z.A., Walker, S. & Tfwala, C.M. 2010. Predicting pearl millet response to water under South African climatic conditions. Oral Presentation: Improving farm management strategies through AquaCrop: Worldwide collection of case studies Workshop, 8th – 9th October, Yogyakarta, Indonesia.  ***LOCAL CONFERENCES***  Ravuluma, M., Bello, Z.A., Dzvene, A., Tesfuhuney, W., Walker, S. & Fourie, A., 2019. Evaluation of integrated maize/beans sole & inter-cropping under in-field rainwater harvesting (IRWH). Poster Presentation: 35th Annual Conference of South African Society of Atmospheric Science, 8 – 9, October, 2019, Vanderbijlpark, South Africa.  Dzvene, A., Tesfuhuney, W., Walker, S. & Bello, Z.A., 2019. Radiation use efficiency and biomass production in maize-beans intercropping under in-field rainwater harvesting. Poster Presentation: 35th Annual Conference of South African Society of Atmospheric Science, 8 – 9, October, 2019, Vanderbijlpark, South Africa.  Bello, Z.A, Dlamini, P, Barnard, J. & van Rensburg, L.D., 2018. Water stress development of glasshouse grown malting barley under water-limited conditions. Poster Presentation: African Combined Congress, 14-18, January, 2018, Cape Town, South Africa.  Mlangeni, C.N, Bello, Z.A, Walker, S. & Tesfuhuney, W.A, 2016. Amaranthus yield and resource use efficiency. Poster Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 18-21, January, 2016, Bloemfontein, South Africa.  Bello, Z.A., Walker, S. & Tfwala, C.M., 2011. Pearl millet (*Pennisetum glaucum*) response to water under line source sprinkler system. Oral Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 17-20, January, 2011, Pretoria, South Africa.  Tfwala, C.M, Walker, S. & Bello, Z.A. 2011. Plant water relation of Pearl millet during vegetative growth. Oral Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 17-20, January, 2011, Pretoria, South Africa.  Bello, Z.A., Walker, S. & Tfwala, C.M., 2011. Influence of water on harvesting frequency of amaranth (Amaranth cruentus). Poster Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 17-20, January, 2011, Pretoria, South Africa.  Bello, Z.A & Hammes, P.S., 2009. Time of initiation of maize reproductive structures as affected by soil fertility status in a long term fertilization trial. Poster Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 20-22, January, 2009, Stellenbosch, South Africa.  Bello, Z.A & Hammes, P.S., 2008. Effect of shading on growth and reproductive development of maize. Oral Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 21-24, January, 2008, Grahamstown, South Africa.  Bello, Z.A & Hammes, P.S., 2008. Yield components and grain yield of maize as affected by soil nutrient status in a long-term trial. Poster Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 21-24, January, 2008, Grahamstown, South Africa.  Bello, Z.A & Hammes, P.S., 2007. Effect of nutrient stress on reproductive development and yield of maize in a long-term trial. Poster Presentation: South African Society of Crop Production, Soil Science Society of South Africa, Southern African Society for Horticultural Sciences and Southern African Weed Science Society combined congress, 22- 25, January 2007, Badplaas, South Africa. | |
| Professional skills | | | * Experimental design, statistical analysis, inference, scientific paper writing, * Crop managements: Fields and greenhouses * Irrigation and fertigation system * Soil moisture monitoring (using neutronprobe, tensiometers and capicitance probes) * Crop modelling: * AquaCrop FAO-Crop model * SAPWAT; South Africa model for estimating irrigation and crop water requirements. * DSSAT - Decision Support System for Agrotechnology Transfer * Seed production and quality monitoring * Plant physiological data collection (using pressure-chamber, porometers etc.) * Plant morphological data collection (sample preparation and observation under light and scaning electron microscope) * Computer literacy: * Advance experience in Microsoft Word * MS Excel * Powerpoint * SAS (Statistical data analysis packages) | |
| Some of research projects involvements | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Origin of research funds** | **Title of research project or programme** | **Duration** | **Role** | **Money allocated (R)** | | Contractual | Evaluating the efficacy of microbial strains on corn growth and productivity | 2021-2023 | Principal Investigator | R1,2 million | | DAFF | Agronomic evaluation of pigeon pea in South Africa | 2019 till date | Researcher | R500,00pa | | GIZ | Climate-Smart Agriculture skills for Extension Practitioners GIZ – ARC Training project | 2019-2021 | Trainer | R1 million pa | | NRF | UFS Postdoctoral fellowship | 2013-2018 | Fellow | R250,000pa | | Kolomela Mine | Contribution of soil water and groundwater towards transpiration of tree species in the Ghaap plateau. | 2016-2018 | Researcher | R1 million pa | | HydraScout | Calibration of newly developed capacitance probe for South African soils. | 2017 | Principal Investigator | R90,000 | | Winter Cereal Trust | Irrigation scheduling of barley research for the Winter Cereal Trust and South Africa Breweries (SAB). | 2013-2017 | Researcher | R900, 000pa | | WRC | Water-use and drought tolerance of selected traditional crops. Water Research Commission (WRC), Report No. 1771/1/13. | 2008-2012 | Research assistant | R3 million | | Potato SA | Dormancy breaking in potato project. | 2006-2007 | Research assistant | R70, 000 | | Potato SA | Bacterial wilt disease potato project. | 2006-2007 | Research assistant | R70, 000 | | |
| Professional services | | | ***Student Supervision***  *CURRENT POSTGRADUATE STUDENTS*   * Co-Supervision: Walter Selelo Mokgobu. Effects of sowing dates and densities on growth and grain yield of pigeon pea (*Cajanus cajan* (L.) Millsp.) Varieties. Master of Science: Agronomy. Department of Plant and Soil Sciences. University of Pretoria, Pretoria. (In progress). * Co-Supervision: Vusimisi Ngcobo. Performance of Water efficient maize of Africa (WEMA) relative to farmers’ Maize (Zea mays L.) choice under different Management practices in Semi-Arid region of Dr RSM district. Master of Agriculture. Department of Crop Sciences, Tshwane University of Technology, Pretoria. (In progress). * Co-Supervisor: Bridget Tshikalange. On-farm quantification of GHG in grain crops fields. Doctor of Philosophy in Environmental management. Centre for Environmental Management, University of the Free State. (In progress).   *COMPLETED POSTGRADUATE STUDENTS*   * Co-Supervision: Muthianzhele Ravuluma. Comparing maize-bean intercropping under conventional and in-field rainwater harvesting for water and radiation use. Master of Science (Agrometeorology). Department of Soil, Crop and Climate Sciences, University of the Free State. (Completed January 2021). * Co-Supervisor: Patience Seyram. Evaluation of propagation methods for African potato (*Hypoxis hemerocallidea*) cultivation. Master of Agriculture. Department of Agriculture, Central University of Technology, Bloemfontein. (Completed December 2020). * Co-Supervisor: Bridget Tshikalange. Evaluating biogas digestate plant fertilization capability and its environmental suitability. Master of Environmental management. Centre for Environmental Management, University of the Free State. (Completed September 2018). * Supervisor: Maboloka Jonas Chipa. The impact of using the beef cattle biogas slurry as organic fertilizer for spinach production. Masters in Sustainable Agriculture. Centre for Sustainable Agriculture, Rural Development and Extension, University of the Free State. (Completed March 2019).   ***teaching***   * Irrigation management (PIRM228) College of Agriculture, Potchefstroom: Guest Lecturer. * Crop modelling, Department of Agriculture, Central University of Technology, Bloemfontein: Guest Lecturer   ***mentorship***   * Matome Samuel Mochosa: Department of Agriculture, Land Reform and Rural Development (RSA) Internship Program. (2021 until date). * Dieketseng Precious Mantjies: Department of Agriculture, Land Reform and Rural Development (RSA) Internship Program. (2021 until date). * Lemme Kgomotso: College of Agriculture, Potchefstroom, South Africa Internship Program. (2021 till date).   ***training***   * Climate-Smart Agriculture skills for Extension Practitioners (GIZ – ARC Training project) - Grain Crops: Training group leader.   ***External examiner***   * Daniel Tekere: Tolerance of lettuce (*Lactuca sativa*) hybrid seedlings to selected soil herbicides under simulated Magaliesburg thermoperiods and humidity. (MSc thesis). University of South Africa, Pretoria, South Africa. * Jeremiah Mpumelelo Hlahla: Photosynthetic efficiency and biochemical responses of vegetable type soybean cultivars under drought. (MSc thesis). Department of Plant Sciences, University of the Free State. * Keitumetse Kujane: Use of molecular markers, agronomical and related attributes on diversity analysis of soybean (*Glycine max*) genotypes. (MSc thesis). Central University of Technology, Bloemfontein, South Africa. * Mandla Wellington Xaba: Assessing the levels of heavy metals in soil and vegetation around a coal-fired power station in Gauteng Province, South Africa. (MSc thesis). Sefako Makgatho Health Sciences University, Pretoria, South Africa. * Mmamudi Anna Makhafola: An investigation into cytotoxic, antimicrobial and phytochemical properties of selected medicinal plants used in South African traditional medicine. (MSc thesis). Sefako Makgatho Health Sciences University, Pretoria, South Africa. * Mudau Tshenzhemo Experience: Ethnobotanical survey and *in vitro* antidiabetic activity of medicinal plants used traditionally for treating diabetes in Vhembe district, Limpopo, South Africa. (MSc thesis). Sefako Makgatho Health Sciences University, Pretoria, South Africa * Nomakhisimusi Gloria Mvula: Growth and yield response of sweet potato to nitrogen fertilization in soils of Ladysmith, KwaZulu-Natal, South Africa. (MSc thesis). University of South Africa, Pretoria, South Africa. * Olawole Emmanuel Aina: Effect of organic and inorganic fertilizers on yield, trace metal uptake and antioxidant properties of tomato (Lycopersicon esculentum). (MSc thesis). Sefako Makgatho Health Sciences University, Pretoria, South Africa. * R. L. Chabalala: Water Productivity of malt Barlet (Hordeum vulgare L.) under Deficit Irrigation. (MSc thesis). Department of Soil, Crop and Climate Sciences, University of the Free State. * Zenzile Peter Khetsha: The effect of potassium and water quality on the yield and oil quality of rose geranium (*Pelargonium graveolens* L.). (MSc thesis). Central University of Technology, Bloemfontein, South Africa. * Armistice Chawafambira: Chemistry and biotransformation of *Uapaca kirkiana* pulp in the development of functional food using probiotics. (PhD thesis). Central University of Technology, Bloemfontein, South Africa. * Floyd Vukosi Khosa: Multi-model estimates of evapotranspiration and soil moisture in the context of climate change across South African landscapes. (PhD thesis). University of KwaZulu-Natal, Pietermaritzburg, South Africa. * Liziwe Lizbeth Mugivhisa: An assessment of human urine as a valuable source of plant nutrients in the production and cultivation of Spinach (Spinacia oleracea L.) and Mazie (Zea mays L.). (PhD thesis). Sefako Makgatho Health Sciences University, Pretoria, South Africa.   ***Assessor***   * Chimwemwe Phiri: NGOs interventions for rural communities’ resilience to climate change and variability. Case study: Mulanje District, Southern Malawi. (Mini-dissertation; Master in Development Studies). Centre for Development Studies, University of the Free State. * Cassandra Lundu: Effects of Climate Change on Communities Involved in the Collection of Non-Timber Forest Products: A Case Study of Sasari Local Forest in Lusangazi District, Zambia. (Mini-dissertation; Master in Development Studies). Centre for Development Studies, University of the Free State. * Mokhabelane Morahanye: Role of Non-Governmental Organizations (NGOs) in Climate Change Adaptation and Mitigation Strategies: A Case Study on Leribe District, Lesotho. (Mini-dissertation; Master in Development Studies). Centre for Development Studies, University of the Free State. * Nontosfane Lucy Skefu: Lesotho Highlands Water Project and sustainable livelihoods: A case study of Phase 1A. (Mini-dissertation; Master in Development Studies). Centre for Development Studies, University of the Free State. * Stanley Nkosikhona Khumalo: Small-Scale Farmers’ Perceptions and Adaptations to Climate Change and Variability: A case Study in the Gundvwini Community, Swaziland. (Mini-dissertation; Master in Development Studies). Centre for Development Studies, University of the Free State.   ***Moderation***   * Course module: Plant Production (I) PPR11AT. Department of Agriculture, Central University of Technology, Bloemfontein, South Africa. * Course module: Plant Production (III) PPR30AT. Department of Agriculture, Central University of Technology, Bloemfontein, South Africa. * Course module: Irrigation Management 228 (PIRMM308). Potchefstroom College of Agriculture, Potchefstroom, South Africa. * Course module: Irrigation Management 308 (PIRMM308). Potchefstroom College of Agriculture, Potchefstroom, South Africa.   ***Reviewer***  *Journals*   * Acta Agronomica * Agricultura Tropica et Subtropica * Agricultural Water Management Journal * Agriculture (MDPI) * AgroForestry Systems * Agronomy (MDPI) * Archives of Agronomy and Soil Science * Atmosphere (MDPI) * Biodiversitas * Cogent Economics and Finance * Cogent Food and Agriculture * HortScience * Ife Journal of science * International Journal of Environmental and Science education * Journal of Agricultural Sciences and Food Technology * Journal of Crop Improvement * Industrial Crops and Products * Publication committee: ARC-GC * South African Journal of Botany * South African Journal of Plant and Soil * South African Journal of Science * Sugar Tech   *Funding body*  NRF:   * Statutory applications * Research funding applications | |
| Workshops and trainings attended | | * Facilitation skills for effective community engagement in primary agriculture (2021) * Assessor training programme – Conduct outcome based assessments (2021) * Conduct moderation of outcome-based assessment (2021) * Surface Renewal (SR) Training workshop (2018) * Project management: The basics (2018) * An introduction to Geographic Information Systems (GIS) and the Global Positioning System (GPS) (2017) * Automatic weather station (AWS) technologies workshop (2016). * Quantitative methodology: Introduction to experimental design, explorative data analysis and regression analysis (2015). * Agrometeorology and sustainable development (2011). * Capacity development for farm management strategies to improve crop –water productivity using AquaCrop (2010). | | | |
| Scientific Society | | Member: American Society of Agronomy. | | | |
| Award Received | | Professor Duncan’s Second Best Undergraduate Project Award in the Department  Of Plant Science, Obafemi Awolowo University, Ile – Ife, Nigeria. | | | |
| Interests and Activities | | Volunteering and Community service. | | | |
| Tips | | Excellent health, good communication and analytical skills, effective time management capability, open to new ideas, take direction and have the drive and zeal to make a thorough success. | | | |
| References | | * Professor Leon van Rensburg   Van`s Lab (Pty) Ltd,  Bloemfontein, South Africa.  Tel: 051 – 401 2957  Mobile: +27 845931214  E: [21626leon@gmail.com](mailto:21626leon@gmail.com)   * Professor Sue Walker   Institute of Soil, Climate and Water,  Agricultural Research Council,  Pretoria, South Africa.  Mobile: +27 82 806 4858  E: [walkers@arc.agric.za](mailto:walkers@arc.agric.za)  [suewalker06@gmail.com](mailto:suewalker06@gmail.com)   * Professor Piet Hammes   Department of Plant Production and Soil Science,  Faculty of Natural and Agricultural Sciences,  University of Pretoria,  Pretoria, South Africa.  Tel: 012 – 420 3219  Mobile: +27 836361464  E: [piet.hammes@up.ac.za](mailto:piet.hammes@up.ac.za) | | | |