

CURRICULUM VITAE
Prof. Mzuyanda Christian

PERSONAL BACKGROUND

Last Name:	Christian
First Name:	Mzuyanda
Gender:	Male
Date of Birth:	04 th March 1990
Marital Status:	Single
Nationality:	South African

Contact Information

Work Address:	School of Agricultural Sciences, Faculty of Sciences, University of Mpumalanga, Mbombela 1200, South Africa.
Postal Address:	Unit 21, Waterberry Way, 45 Granniet Street West Acres, Mbombela 1200, South Africa.
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QUALIFICATIONS AND FIELD OF STUDY

Qualification	Institution	Year
Ph.D. (Agricultural Economics) Thesis Title: Analysis of the Impact of Smallholder Irrigation Schemes on the Choice of Rural Livelihood Strategy and Household Food Security in Eastern Cape	University of Fort Hare (Alice)	2017
MBA (Masters of Business Administration) Dissertation Title: Assessing the funding model of SMMEs in the North West Province	North West University (Mahikeng)	2023
MSc. (Agricultural Economics) Dissertation Title: Assessing the impact of primary agricultural co-operative membership on smallholder farm performance (crops) in Mquma Local Municipality of the Eastern Cape Province	University of Fort Hare (Alice)	2014
BSc. (Agricultural Economics)	University of Fort Hare	2012
Grade 12 Senior Certificate (Science option)	JS Skenjana SSS	2007

WORK EXPERIENCE

Position	Department/Institution	Period
1. Associate Professor	University of Mpumalanga	2023-present
<ul style="list-style-type: none">- Teaching, Learning and Assessment of undergraduate and postgraduate students- Actively participate in School research programmes- Supervise postgraduate's student's research projects.- Community engagement – conducting community projects, serve as external examiner, reviewer of journal articles.		
2. Senior Lecturer (contract)	University of Pretoria	2023-2023
<ul style="list-style-type: none">- Teaching, Learning and Assessment of undergraduate students- Guest lectures for CIMAE programme		
3. Senior Lecturer and Researcher	Nelson Mandela University	2022-2023
<ul style="list-style-type: none">- Teaching, Learning and Assessment of undergraduate and postgraduate students- Assist curriculum design and implementation of Honours programme and short learning programmes- Actively participate in Department research programmes.- Actively participate in the recruitment of staff- Supervise postgraduate's student's research projects.- Community engagement – conducting projects, external examinations.		
4. Senior Lecturer and Researcher	North West University	2018-2022
Senior Lecturer & Secundus to Head of Department (since 2020)		
<ul style="list-style-type: none">- Teaching, Learning and Assessment of undergraduate and postgraduate students- Assist in Internal and External Programme Review (IPE&EPE)- Actively participated in School and Department research programmes.- Actively participate in the recruitment of staff- Supervise postgraduate's student's research projects.- Participate in external examinations		
5. Lecturer	Tshwane University of Technology	2017-2018
<ul style="list-style-type: none">- Teaching, Learning and Assessment of undergraduate and postgraduate students.- Assist curriculum design and implementation of newly accredited programmes.- Liaise with the industry regarding practical training or Work Integrated Learning (WIL)		
6. Lecturer	King Hintsa TVET	2016-2017

- Assist in the development of study material including an interactive classroom experience
 - Overseeing delegated academic offerings.
 - Participate in college community projects.
 - Serve as subject coordinator and examiner.
 - Administrative functions.
7. Junior Agricultural Economist Department of Agriculture (PTA) 2015-2016
- Administering the CASP & Ilima Letsema conditional grants
 - Compiling national business plan for the funded projects
 - Perform monitoring and evaluation on the funded projects
 - Facilitating stakeholder engagements such as Quarterly Review Meetings (QRM)
8. Researcher/Lecturer Assistant University of Fort Hare 2013-2015
- Participation in the Department research programmes
 - Teaching assistant for modules taught by the supervisor
 - Research on appropriate entrepreneurial development paths in the transition from homestead food gardening to smallholder irrigation crop farming in the Eastern Cape Province of South Africa (Field work Team Leader)

TEACHING AND LEARNING

1. Modules taught

Name of the module	Code	NQF Level	Institution
Agricultural Business	ABM 202	6	UMP
Research-led Agriculture Dev	ABM 404	7	UMP
Agricultural Policy Analysis & Food Sec	PGAG 519	P. Diploma	UMP
Crop Production Economics & Risk Man	PGAG 508	P. Diploma	UMP
Agricultural and Food Policy Analysis	LEK 310	6	UP
Agricultural Macroeconomics	AECM 325	6	NWU
Agricultural Policy Analysis	AECM 422	7	NWU
Agribusiness Management	AECM 415	7	NWU
Introduction to Agricultural Economics	AEDM 111	5	NWU
Financial Markets and Institutions	FIE206D	6	TUT
Microeconomics	MIC206D	6	TUT
Econometrics	ECT215D	6	TUT
Agricultural market analysis	AGE312	6	UFH
Agricultural Development planning	AGE321	6	UFH
Primary agriculture		N3	College
Introduction to financial management		N3	College

2. Module external moderation

Name of the module	Code	NQF Level	Institution
Statistics and Data Analysis Module	PGAG503	P. Diploma	UMP
Agricultural Policy and International Trade	SAAE422	7	UniZulu
Risk management	SAAE421	7	UniZulu

Financial management	AB 214	Diploma	Fort Cox
Agricultural Project Analysis	AES4702	7	UNISA

3. Teaching awards and related bursaries

Name of the award: Teaching and Excellency Award

Institution: North West University

Year: 2022

Amount: R20 000

Name of the award: Staff Bursary (subsidy) for the MBA degree

Institution: North West University

Year: 2021 - 2023

Amount: R300 000

4. Teaching and learning related trainings/professional development attended

Name of the training/workshop	Provider	Year
Curriculum design and development	TUT	2018
Assessment and feedback	TUT	2018
Teaching strategies	TUT	2018
Peer evaluation and feedback	TUT	2018
Reflective practice	TUT	2018
Successfully completed induction programme	NWU	2019
Scholarship of Teaching and Learning (SoTL) training	NWU	2019
Teaching with technology	NWU	2022
The role of educational developers in teaching & excellence	NWU	2021
Beyond pedagogy	NWU	2021
Avoiding plagiarism in T&L	NWU	2020
Internal and External programme evaluation	NWU	2022
Curriculum design	NMU	2023
Moodle use	UMP	2023
Leveraging AI for Education	UMP	2024
Grammarly	UMP	2024
Digital tools for oral presentation	UMP	2024
Assessor course	REGENESYS BUSINESS SCHOOL	2024

5. Teaching and learning related conference attended & presented

- Christian M et al (2014): Participated on CASE COMPETITION in the IFAMA International Conference held in Cape Town ICC 2014.
- **Christian M** (2019). Large classes in the higher education sector: A problem or opportunity?. A paper prepared and presented at **The 2nd Annual Teaching & Learning conference** held at NWU- Potchefstroom. South Africa
- **Christian M**, Konyana S, Zantsi S and Jiba P (2023). What do we know and what should we know about the intersection of generative ai and academic integrity in sub-Saharan

Africa? a systematic review. A paper prepared and presented at **The 6th Teaching with Technology Summit** held at MUT Durban. South Africa

RESEARCH, INNOVATION & INTERNATIONALIZATION

1. Research areas/interest

- Agricultural Policy and Food Security
- Agricultural cooperatives and collective action
- Climate change
- Energy and food system transition
- Technology adoption
- Economics of Smallholder Irrigation

2. Summary of research outputs

H-index (according to google scholar citations) = 10

I10-index (according to google scholar) = 10

Citations = 268

ORCID = 0000-0003-4446-0298

Honours supervision = 24

Masters = 14

PhDs = 4

NRF Rating = Pending

3. Attracting funding

Funder name	Role	Amount	Year
INCLUDE	Co-investigator	€40,000.00	2025
Knowledge Interchange and Collaboration (KIC240814259081)	Principal Investigator	R37 000	2025
NRF – Thuthuka Rating Track	Principal Investigator	R100 000	2023 - 2026
UCDG: Staff Development	Principal Investigator	R30 000	2021
IFAMA Traveling grant	Principal Investigator	R50 000	2017
NRF-DAAD German Scholarship for PhD	Principal Investigator	R120 000	2016
NRF Free Standing for Masters	Principal Investigator	R80 000	2015
FoodBev	Principal Investigator	R25 000	2013

4. Peer-reviewed academic articles published

1. Zantsi S; Mendi G.T; Qwabe C.N; **Christian M.** (2025). Livestock Remedy Expenditure Patterns of Communal Farmers in South Africa: Implications for Animal Health Care Policies and Ethno-Veterinary Medicine. *South African Journal of Agricultural Extension* 53 (2), <https://doi.org/10.17159/2413-3221/2025/v53n2a15121>
2. Jagadeesh, D., **Christian, M.**, Khobai, H. and Letsoalo, S.S (2025). Adoption Drivers of Climate Smart Irrigation Technologies for Sustainable Production by Smallholder Maize Farmers in Botswana. *South African Journal of Agricultural Extension* 53 (5), 10.17159/2413-3221/2025/v53n5a21390
3. Thembaletu Macdonald Set, **Mzuyanda Christian** & Phiwe Jiba (2025). Determinants of Provincial Economic Growth Disparities in South Africa Post-Democracy. *African Journal of Business and Economic Research* 20 (3), <https://doi.org/10.31920/1750-4562/2025/v20n3a4>
4. Nondumiso N.C. Malaza, Thuthuzelwa Stempa, Obiro C. Wokadala, **Mzuyanda Christian**, July J. Sibanyoni, Bongiwe Mcata, Victor Mlambo (2025). Moderation of the intention to purchase plant-based beverages by rural and urban dwelling area type: An application of the theory of planned behavior. *Food and Humanity*, 4(2025), <https://doi.org/10.1016/j.foohum.2025.100589>
5. Seti, T. M., Mazwane, S., & **Christian, M.** (2025). Financial Openness, Trade Openness, and Economic Growth Nexus: A Dynamic Panel Analysis for Emerging and Developing Economies. *Journal of Risk and Financial Management*, 18(2), 78. <https://doi.org/10.3390/jrfm18020078>
6. Jonas, N.; **Christian, M.**; Ntombela, S.; Letsoalo, S. (2025) Empowering South African Smallholder Farmers: Integrating Climate Resilience into Credit Assessment. *Sustainability* 2025, 17, 261. <https://doi.org/10.3390/su17010261>
7. Mangoejane TP and **Christian M** (2025). Does the Adoption of Genetically Modified Seeds Improve the Technical Efficiency of Family-Owned Maize Farms? A Case of Alfred Nzo in the Eastern Cape. *South African Journal of Agricultural Extension* 53 (1), 139-168 v 10.17159/2413-3221/2025/v53n1a18425
8. Kwakhanya Gcaba, **Mzuyanda Christian**, Simon Letsoalo, Dhanya Jagadeesh (2025). Factors Influencing the Willingness and Ability of Farmers to Adopt TELA Maize Seed in Alfred Nzo District, Eastern Cape, South Africa. *Sustainability* 2025, 17(3), 973; <https://doi.org/10.3390/su17030973>
9. Jagadeesh, D.; **Christian, M.**; Letsoalo, S. (2024). Assessing the Effectiveness of Climate-Smart Irrigation Practices in Improving Household Income Among Smallholder Maize Farmers in Botswana. *Sustainability*, 16, 9693. <https://doi.org/10.3390/su16229693>
10. P Jiba, **M Christian**, K Nxumalo, V Mmbengwa (2024). Preferences for index-based crop insurance in South Africa. *Jambá-Journal of Disaster Risk Studies* 16 (1), 1611.

11. K Gcaba, **M Christian**, L Usapfa (2024). Does the Adoption of Genetically Modified Seeds Improve the Technical Efficiency of Family-Owned Maize Farms? A Case of Alfred Nzo in the Eastern Cape. *South African Journal of Agricultural Extension* 52 (4), 148-165.
<https://doi.org/10.17159/2413-3221/2024/v52n4a18386>
12. **M Christian**, A Obi, S Zantsi & P Jiba (2024). The role of Cooperatives in improving smallholder's participation in Sustainable Agri-food value chains: a case study of local municipality in Eastern Cape, South Africa. *Sustainability* 16 (6).2241
13. Motlogelwa Kelefiwe, **Mzuyanda Christian**, Usapfa Luvhengo (2024). Consumer behavior and perceptions towards Agro-processed fruit and vegetables in Ngaka Modiri Molema District. *International Journal of Science and Research*
14. Jiba P, Obi A, Mdoda L & **Mzuyanda C** (2024). The Impact of Smallholder Irrigation Scheme on Household Welfare in Farm-Managed Irrigation Scheme Communities in the Eastern Cape Province, South Africa. *South African Journal of Agricultural Extension* 52 (1), 48-72
15. SS Ntlanga, P Jiba, **M Christian**, L Mdoda (2023). Assessing awareness and perceptions towards the existence of indigenous foods in Port St Johns of the Eastern Cape South Africa. *South African Journal of Agricultural Extension* 51 (3), 115-134
16. Lelethu Mdoda, **Mzuyanda Christian**, Ikechi Agbugba (2023). Use of Information Systems (Mobile Phone App) for Enhancing Smallholder Farmers' Productivity in Eastern Cape Province, South Africa: Implications on Food Security. *Journal of the Knowledge Economy* 15 (1), 1993-2009
17. Zantsi S & **Christian, M** (2023). Is there a case for supporting animal traction research, policy, and practice in rural South Africa? -A Review. *South African Journal of Agricultural Extension* 51 (1), 34-50
18. Lelethu Mdoda, Ajuruchukwu Obi, Zoleka Ncoyini-Manciya, **Mzuyanda Christian**, Anele Mayekiso (2022). Assessment of profit efficiency for spinach production under small-scale irrigated agriculture in the Eastern Cape Province, South Africa. *Sustainability* 14 (5), 2991
19. **C Mzuyanda**, U Luvhengo, P Jiba, H Khobai, SS Letsoalo (2022). Analyzing the delivery of public agricultural extension services to rural households during Covid-19: A case study of Idutywa, Eastern Cape, South Africa. *South African Journal of Agricultural Extension*.
20. **Mzuyanda Christian**, Phiwe Jiba, Siphokuhle Nohamba (2022). Farm post-harvest losses and their determinants among navel and lemon farmers in Kat River valley, Eastern Cape, South Africa. *PONTE International Journal of Science and Research* 78 (7)
21. Tshomarelo Dikgole, **Mzuyanda Christian**, Usapfa Luvhengo (2022). Food safety knowledge and handling practices of poultry products by consumers in Ngaka Modiri Molema District, North-West Province. *International Journal of Science and Research*

22. Lelethu Mdoda & **Mzuyanda Christian** (2021) Smallholder vegetable farmers' commercialization to enhance rural livelihoods in the Eastern Cape province, *South African Journal of Science, Technology, Innovation and Development*, DOI: [10.1080/20421338.2021.1979172](https://doi.org/10.1080/20421338.2021.1979172)
23. B Kgopolo, U Luvhengo, **C Mzuyanda**, K Ravhuhali, JN Lekunze (2020). Youth Participation in Farming Information related Activities in Mahikeng Local Municipality, North West province South Africa. *Journal of Scientific Communication 2 (2)*
24. **Christian, M .**, Jiba P and Mdoda, L (2020). Factors influencing rainfed agricultural land abandonment in Mnquma and Mbashe Municipalities, Eastern Cape. *International Journal of Recent Technology and Engineering*. Volume-9 Issue-2 ISSN: 2277-3878
25. **Christian, M., Luvhengo U., Kobai H** (2020). Land Access, Livelihood Diversification Strategies and Rural Household well-being in Mnquma, Eastern Cape: Implications to Extension agents. *South African Journal of Agricultural Extension*. Vol. 48 No.2, 2020: 113 – 125. <http://dx.doi.org/10.17159/2413-3221/2020/v48n2a542>
26. Agbugba, I.K, **Christian, M** & Obi, A (2020). Economic analysis of smallholder maize farmers: implications for public extension services in Eastern Cape *South African Journal of Agricultural Extension*. Vol. 48 No.2, 2020: 50 – 63 <http://dx.doi.org/10.17159/2413-3221/2020/v48n2a537>
27. **Christian, M** and Obi, A (2018). Impact of irrigation adoption on rural farmer's welfare in Eastern Cape Province of South Africa: A Propensity Score Matching Approach. *African Journal of Agriculture*. 13(46):2641-2650. <https://doi.org/10.5897/AJAR2018.13086>
28. **Christian, M** and Obi, A (2019). Adoption of irrigation technology to combat household food insecurity in the resource-constrained farming systems of the Eastern Cape province, South Africa. *South African Journal of Agricultural Extension*. Vol. 47 No. 2, 2019: 94 – 104. <http://dx.doi.org/10.17159/2413-3221/2019/v47n2a506>
29. **Christian, M** and Mdoda L (2019). Household Food Security, Dietary Diversity and Coping Strategies amongst Irrigators in Nqamakwe, Eastern Cape. *Journal of Human Ecology*. 68(1-3): 78-88 (2019). DOI: 10.31901/24566608.2019/68.1-3.3169
30. **Christian, M.,** Hans, T., and Gidi, L.S (2018). Impact of Entrepreneurial Spirit on Performance of Youth and Women Cooperatives. A case of some selected Cooperative Societies in Eastern Cape. *Journal of Development and Agricultural Economics*. Vol.10 (12), pp. 394-403. <https://doi.org/10.5897/JDAE2018.0932>

5. Academic articles awaiting publication

- 1) **Christian, M** et al., (2024). Determinants of the Small and Medium Agribusiness Enterprises funding model during covid-19 pandemic in the North West Province, South Africa. *International Journal of Economics and Finance issues*.
- 2) **Christian** et al (2024). Vegetable value addition initiatives pursued by smallholder irrigation farmers in Eastern Cape, South Africa. *Sustainability*.

6. Conferences attended/papers/posters presented

International conferences = 6

Local conference = 10

- **Christian M, Jiba P, Zantsi S, Obi, A (2025). “Adoption and potential impacts of solar powered climate smart irrigation on smallholder farmers in Africa: a systematic review”**. Paper accepted to be presented at the **SETI Workshop** held in Sweden on the 13 August 2025
- **Christian M, Jiba P, Zantsi S, Mazwane , S and Konyana S (2025). “Determinants of irrigation scheme participation, intensity and their impact on income among crop farming households in Ngqamakhwe, South Africa”**. Paper presented at the **International Food and Agribusiness Management Association (IFAMA) Conference held in Riberao Preto, Brazil on the 23-26 June 2025.**
- **Christian M, Jiba P, Zantsi S, Obi, A (2024). “Does Size Really Matter on the Performance? –A Case Study on Maize Agricultural Cooperatives in Eastern Cape, South Africa”**. Paper accepted to be presented at the **57th Annual conference of the South African Society for Agricultural Extension** held in Free State on the 26 August 2024
- **Jagadeesh, D; Christian M (2024). “Adoption Drivers of Climate Smart Irrigation Technologies for Sustainable Production by Smallholder Maize Farmers in Botswana”**. Paper accepted to be presented at the **57th Annual conference of the South African Society for Agricultural Extension** held in Free State on the 26 August 2024
- **Gcaba K & Christian M (2024). Assessing The Impact of Technical Inefficiencies Involving Adoption of Genetically Modified Seeds by Smallholder Maize Farms of Alfred Nzo District Municipality.** Paper accepted to be presented at the **57th Annual conference of the South African Society for Agricultural Extension** held in Free State on the 26 August 2024.

- **Jonas N, Christian M & Ntombela S, (2024). Profiling and identifying the status quo of credit access for smallholder farmers in South Africa.** Paper prepared and presented at the **International Food and Agribusiness Management Association (IFAMA) Virtual Conference** held in Almeria, Spain on the 11-20 June 2024.

- **Christian M & Jiba P, Agbugba IK & Obi A, (2024). Vegetable value addition initiatives pursued by smallholder irrigation farmers in Eastern Cape, South Africa.** Paper prepared and presented at the **International Food and Agribusiness Management Association (IFAMA) Conference** held in Almeria, Spain on the 11-20 June 2024.
- **Christian M & Obi A, (2024). The nexus between smallholder irrigated agriculture and household welfare: A case study of the Eastern Cape Province, South Africa.** Paper prepared and presented at the **International Food and Agribusiness Management Association (IFAMA) Conference** held in Almeria, Spain on the 11-20 June 2024.
- **Christian M, Smit A, Lekunze J, Khobai H & Luvhengo U (2024). Determinants of the Small and Medium Agribusiness Enterprises funding model during covid-19 pandemic in the North West Province, South Africa.** Paper prepared and presented at the **International**

Food and Agribusiness Management Association (IFAMA) Conference held in Almeria, Spain on the 11-20 June 2024.

- Gcaba K, Luvhengo U & **Christian M** et al (2023). Can family-owned farms in Eastern Cape become less technical efficiency if genetically modified seed is not adopted. Paper prepared and presented at the **56th Annual conference of the South African Society for Agricultural Extension** held in KwaZulu Natal on the 28 August 2023.
- Mangoejane T.P, Jiba P & **Christian M** et al (2023). An entrepreneurial framework for improved productivity and financial performance of Agricultural Cooperatives in the North West Province. Paper prepared and presented at the **56th Annual conference of the South African Society for Agricultural Extension** held in KwaZulu Natal on the 28 August 2023.
- **Christian M** & Obi A, (2022). Technical efficiency and technological gaps in maize production under irrigation in Eastern Cape. Paper prepared and presented at the **32nd International Food and Agribusiness Management Association (IFAMA) Conference** held in Earth University, Costa Rica on the 18-23 June 2022.
- Dikgole T, **Christian M** & Luvhengo U (2022). Food safety knowledge and handling practices of poultry products by consumers in Ngaka Modiri Molema district, North-West province. Paper prepared for the presentation at the **59th AEASA Conference** held in Strand Hotel, Swakopmund, Namibia on the 02-05 October 2022.
- Luvhengo U, **Christian M**(2022). Value chain and evaluation of factors affecting tomato production in Greater Tzaneen municipality, Limpopo, South Africa. Paper presented at **the 59th AEASA Conference** held in Strand Hotel, Swakopmund, Namibia on the 02-05 October 2022.
- **Christian M** & Obi A (2021). Assessing the impact of smallholder irrigation scheme towards household welfare in the Eastern Cape Province, South Africa. A paper prepared and presented at **2021 IFAMA conference** held virtually.
- **Christian M**, Khobai H, Jiba P & Luvhengo U (2021). Transfer and Delivery of Agricultural Extension Services in Times of Covid-19 in South Africa: A Model Review for Sustainable Development Goals. Paper prepared for presentation at the **54th Annual conference of the South African Society for Agricultural Extension** held in Ashanti Estate Cape Town on the 24 September 2021.
- **Christian M**, Gqulana A, Jiba P & Mdoda L (2021). Factors Influencing Farmer's Access to Extension Services and its Implication on Agricultural Production Post the Covid-19 Pandemic in the Eastern Cape. Paper prepared for a presentation at the **54th Annual conference of the South African Society for Agricultural Extension** held in Ashanti Estate Cape Town on the 24 September 2021.

- **Christian M** et al (2020). Household Food Security, Dietary Diversity and Coping Strategies amongst Irrigators in Nqamakwe. A paper prepared and presented at the **14th International European Forum on System Dynamics and Innovation in Food Network** held virtually.
- **Christian M** & Nohamba S (2019). Factors affecting Post-Harvest Losses in different Marketing Channels of Navel and Lemon in Kat River Valley, Eastern Cape, South Africa. A paper prepared and presented at the **International conference on Economic Research** held in Alanya. Turkey.
- **Christian M** & Obi A (2018). Factors affecting irrigation adoption and its impact on food production in Eastern Cape. A paper prepared and presented at **The 3rd BRICS Young Scientist Forum** held in Durban. South Africa.
- **Christian M** et al (2018). The effect of corruption on land accessibility by women: Evidence from Developing countries. A paper prepared and presented at the **The ASSAf Annual Young Scientist Conference** held in Johannesburg. South Africa.
- **Christian M** et al (2016). The impact of cooperative membership on farm performance. A poster prepared and presented at the **2016 Autumn International Scientific Conference on food safety and security (FSaS)** held at University of Johannesburg 16-18 May 2016

7. Book chapters

- **Christian, M. 2017.** Analysis of the impact of irrigation schemes on the choice of rural livelihood strategy and household food security
- Mdoda L, **Christian M** (2025). Leveraging Mobile Applications/Technology to Boost Smallholder Farmers' Productivity in the Eastern Cape, South Africa: Effects on Sustainable Food Security

8. Technical report

- Obi, A., Nweke, F., Agbugba, I.K., Lesala M., Balogun T. & **Christian, M.** (2015). Water Use productivity associated with appropriate entrepreneurial development paths in the transition from homestead food gardening to smallholder irrigation crop farming in the Eastern Cape province of South Africa **K5/2178**, Deliverable No 10: Interim Report on Formulation of Appropriate Entrepreneurial Development Paths for Establishing Sustainable Farming Businesses with Crop Enterprises to Increase Food Security, Profitability and Employment Opportunities on Smallholder Irrigation Schemes, **Water Resource Commission (WRC), March 2015.**

9. Projects

Funder: INCLUDE

Title: Proposal on South Africa country case study green jobs for youth in a just food systems transition in Africa
Year: 2025 – 2026
Research outcome: In progress

Funder: NRF – Thuthuka Rating Track
Title: Abandonment of arable crop lands and government efforts to revamp arable crop lands for food security in rural communities in the Eastern Cape
Year: 2023-2026
Research outcome: 1 Publications and 1 local conference

Funder: Water Research Commission
Title: Research projects carried-out focused on problems and issues cutting across agricultural and food systems with emphasis on marketing, smallholder agribusinesses, and public policy. Research projects included: Water Use Productivity associated with appropriate Entrepreneurial Development Paths in the Transition from Homestead Food Gardening to Smallholder Irrigation Crop Farming in the Eastern Cape Province of South Africa
Year: 2014 – 2017
Research outcome: 3 Publications and 2 international conferences

10. Student supervision

Undergraduate (4th years/Hons) Research Supervision Successfully Completed = 24

University of Mpumalanga

1. **Maimane KC, 2025.** Investigating households' perceptions of cropland abandonment in dutywa, mbashe local municipality, Eastern Cape.
2. **Napo, L, 2025.** Assessing the effects of climate change and cropland abandonment on household food security in Butterworth.
3. **Tlaka JM, 2025.** Assessing factors influencing the ICT use among smallholder farmers in Mbombela, South Africa.
4. **Xulu, V, 2025.** Assessing the Influence of Market Outlet Choice on the profitability of Smallholder Vegetable Farmers in Nkomazi.
5. **Mkhize Z, 2024.** Evaluating factors affecting youth participation in agricultural cooperatives in Mbombela: implications for employment
6. **Mosoma N, 2024.** The Implications of Agro-Ecological Farming Practices on the Well-being of Rural Farmers.
7. **Ndumo K, 2024.** Assessing the status of road infrastructure and its impact on market access for small-scale farmers in Mpumalanga: Ehlanzeni District Municipality
8. **Sambo, T, 2024.** Assessing welfare effects of vegetable farmers participation to modern agricultural value chains. A case of Mbombela, Mpumalanga.
9. **Sithole, L, 2024.** Farmer's willingness to take crop insurance. A case of maize smallholder producers in Mbombela, Mpumalanga.
10. **Temba CD, 2024.** Evaluating the perceptions of smallholder farmers on the effects of CO₂ emissions on agricultural production in Mbombela

- 11. Maimane CK, 2025.** Investigating households' perceptions of cropland abandonment in Mbashe local municipality, Eastern Cape

North West University

- 12. Poss LK, 2023:** An Enquiry into the Food Waste and Management Practices in the Retail Industry in Mafikeng, North West
- 13. Mogashoa E, 2023:** Covid-19 disruptions on the barely value market chain in South Africa
- 14. Miya D, 2022:** Rural youth in smallholder farming for industrial hemp textile and youth unemployment
- 15. Gcaba K, 2021:** Rural Youth Interest In Economic Activities Along The Agricultural Value Chain: A CASE IN NORTH-WEST PROVINCE
- 16. Mabengwane Y, 2020:** Consumer preferences and willingness to pay for value added chicken products in East London
- 17. Ntsoane TP, 2020:** Contribution of small scale sheep production to household income in Ngaka Modiri Molema District, North West Province
- 18. Ntuli X, 2020.** Assessing the determinants of food accessibility by rural household of Giyani, Limpopo
- 19. Shole RG, 2020:** Awareness and willingness to adopt organic fertilizer by smallholder farmers in Ngaka Modiri Molema North West
- 20. Ntshidi NP, 2019:** Food insecurity and coping strategies among rural households of North West: A case of Lomanyaneng, Mafikeng
- 21. Mahlangu VS, 2019:** The determinants of maize production among small scale farmers in Mpumalanga, South Africa. A case of Thembisile Hani Local Municipality
- 22. Ntwe OF, 2019:** Analysing factors affecting adoption of ITC by small scale farmers in Kgaka Modiri Molema District
- 23. Makwala MMD, 2019:** An economic impact of avocado production on rural households of Mopani District in Limpopo
- 24. Motlogelwa K, 2019:** An analysis of marketing channels for emerging field crop farmers in Ngaka Modiri Molema District

Master's Research Supervision Successfully Completed = 14

North West University

- 1. Maluleke F, 2021:** Determinants and welfare implications of formal market participation by smallholder mango farmers in vhembe, limpopo province
- 2. Dikgole T, 2021:** Consumer food safety knowledge and handling practices after foodborne disease outbreak. A case of Ngaka Modiri Molema District.
- 3. Ramahlalerwa BP, 2022:** Assessing existing Financing Models amongst Black Entrepreneurs in the South African Wine Industry: Case of Western Cape.
- 4. Ntwe O, 2022:** Exploring potential use of e-agriculture platform for ease market access among smallholder vegetable farmers in Bojanala District.
- 5. Ndlazilwana LC, 2022:** Perceptions, coping strategies and welfare impact of drought among small stock farmers in Amathole, Eastern Cape.

6. **Maruli M, 2023:** Effectiveness of Agri-Park Intervention Strategy towards the Rural Economy Transformation in the North West Province.
7. **Diphoko IV, 2023:** Determinants of agricultural commercialization among smallholder vegetable farmers in Bojanala District, North West province of South Africa.
8. **Mangoejane TP, 2023.** Development Of Entrepreneurial Framework To Increase Productivity And Financial Performance Of Agricultural Cooperatives In North West Province
9. **Motlogelwa K, 2024.** Assessing the impact of ICT-enabled information systems on market participation by emerging vegetable farmers in ngaka modiri molema district
10. **Gcaba K, 2024.** Adoption of genetically modified seed and its impact on technical efficiency of family-owned maize farms in Eastern Cape.
11. **Teme LMM, 2024.** Perceptions and willingness to adopt artificial insemination: a case of cattle farmers in Bojanala Platinum District
12. **Moote LKP, 2025.** Participation in value-addition activities of vegetables by smallholder farmers in the North West province

Masters Research Supervision (On-going)
NORTH WEST UNIVERSITY

1. **Lekabe GI. (2022).** The impact of Comprehensive Agricultural Support Program on the technical efficiency of pig farmers in the North West Province

NELSON MANDELA UNIVERSITY

1. **Majola N. (2023).** Evaluating the impact of water scarcity and factors influencing the adoption of climate smart irrigation in Mpumalanga

UNIVERSITY OF MPUMALANGA
Completed = 2

1. **Nkuna S. (2024).** Assessing smallholder vegetable farmers' willingness to pay for organic fertilizer in Nkomazi - Mpumalanga
2. **Morajane L. (2024).** Factors affecting land abandonment in Mnquma Local Municipality, Eastern Cape

Ongoing (70% to completion)

1. **Mamabolo S. (2023)** Effects of socioeconomic factors on small-scale Mpumalanga province: A multiple regression analysis
2. **Mkhize Z. (2025).** Evaluating the impact of Land Abandonment and Agricultural Revitalization Programs on Smallholder Farmers' Welfare in Mbhashe, Eastern Cape

PhD Research Supervision/Promotion (completed) (4)

1. **Jiba P, 2023:** Awareness, perception and willingness to pay for crop and livestock insurance by irrigation schemes beneficiaries in Eastern Cape.

2. **Mohono D, 2024.** Emerging technologies and effective governance for agricultural sustainability in the North West Province
3. **Jonas N, (2025):** Developing a credit funding model for Smallholder farmers.
4. **Jagadeesh D, (2025):** An inquiry into the adoption drivers and welfare implications of improved irrigation technology in small holder maize production in Botswana.

12. Research related workshops/professional development

1. The Economics of Energy Transitions: Concepts, Methods and Research for Policymaking by UNIVERSITY OF CAPE TOWN (2024)
2. Comprehensive Data analysis using STATA & R studio: Five day course on STATA by CENTER FOR STATISTICAL ANALYSIS & RESEARCH, Wits University (2019).
3. Strengthening Post Graduate Supervision: Short course by RHODES UNIVERSITY (2022)
4. Macroeconomic modelling: Three day course on macroeconomic modelling presented by GMRDC, East London (2013)
5. Monitoring and Evaluation: Local livelihoods Ltd, UK: Results Based Project Monitoring and Evaluation, Online course (2014).
6. Statistical programming: Two day course on SPSS presented by the Department of Statistics, Fort Hare University, Alice (2014).
7. Emotional intelligence: Five day course on Emotional Intelligence by the Primeserv; Employee Development and Performance Management, Pretoria (2015).
8. Communication & Conflict Resolution: Two day course on Conflict Resolution by NWU, (2019).
9. Quantitative Research Methods: Five day course on Research Methods AFRICAN DOCTORAL ACADEMY, Stellenbosch University (2019).

COMMUNITY ENGAGEMENT

1. Awards

Name of the award: Mail & Guardian Greening the Future Award (Sustainable Agriculture)

Institution: Mail & Guardian

Year: 2025

Amount: Not specified

2. Seminars and workshops

- Organising and chairing of seminars/workshops around the following themes: youth engagements in agriculture, land reform and food security
- Participated in book launches (A country of Two Agricultures – W Sihlobo)
- Assisting with the design and implementation of farmer training activities
- Participant in country wide seminars on economic and agricultural issues.

3. Thesis/dissertation examinations

MSc = 13

PhD = 2

University of South Africa (UNISA)

- **Dlamini, Y.S (2021)**. Microfinance services and their effects on smallholder farmers incomes and productivity in Eswatini. **MSc. Agriculture**
- **Mathevula, N.G (2021)**. Assessment of biosecurity practices implemented by smallscale broiler farms in Ekurhuleni. **MSc. Agriculture**
- **Venter, M (2022)**. Agricultural Disaster Risk Management of commercial sheep farmers in the Middelburg area of the Karoo, Eastern Cape, South Africa. **MSc. Agriculture**
- **Molapo, D.B (2024)**. Socioeconomic and welfare aspects of working equines in the peri-urban areas around Mogalakwena municipality in Limpopo Province, SOUTH AFRICA. **MSc. Agriculture**
- **Baloyi, S.F (2024)**. The impact of renewable energy consumption, foreign direct investment, economic growth, and carbon dioxide emissions on soybean production in SOUTH AFRICA. **MSc. Agriculture**

UNIVERSITY OF PRETORIA (UP)

- **KATAZURA Hycianthia (2023)**. Assessment of AGRISETA agricultural skills training programmes offered in three selected farmer cooperatives in South Africa. **MSc. Agricultural Extension**
- **Oloyede W (2025)**. The commercialisation potential of Bambara groundnut, orange-fleshed sweet potato, and cowpea along their value chains in South Africa for food and nutrition security. **PhD in Agricultural Economics**

TSHWANE UNIVERSITY OF TECHNOLOGY (TUT)

- **Dube N (2024)**. The socio-economic analysis of sugarcane production by smallholder sugarcane farmers in the Kwazulu-natal Province. **MSc. Agriculture**

CAPE PENINSULA UNIVERSITY OF TECHNOLOGY (CPUT)

- **Lefsifi P (2024)**. Awareness and adoption of agricultural e-commerce applications by smallholder farmers in Bushbuckridge Local Municipality, Mpumalanga Province. **MSc. Agriculture**

UNIVERSITY OF FREE STATE (UFS)

- **Msila R (2025)**. Awareness and adoption of agricultural e-commerce applications by smallholder farmers in Bushbuckridge Local Municipality, Mpumalanga Province. **M. Agricultural Management**
- **Monteiro M.A (2025)**. Assessing the Social and Economic impact of changed water use behaviour in selected food commodities in South Africa **PhD. Agricultural Economics**

UNIVERSITY OF LIMPOPO

- **Ntsoane MR (2025)**. Assessing the consumption of Giant-Jewel Beetles (*Sternocera Orissa*) among rural households in the Lepelle-Nkumpi Local Municipality of Limpopo Province. **MSc Agricultural Economics**
- **Mametla Margaret Papo (2025)**. Impact analysis of the linkage between agricultural exports and gross income of the agricultural sector in South Africa from 1990 to 2022. **Master of Agricultural Management**

UNIVERSITY OF LESOTHO

- **QHOAI LIPALES MATHE (2025)**. Factors influencing youth participation in land restoration initiatives in LESOTHO. **MSc Resource Conservation**
- **MOEKETSI MOFOLO (2025)**. Effects of sustainable agricultural practices on farm income and food security among small-scale bean farmers in leribe and mohale's hoek, LESOTHO. **MSc Resource Conservation**

4. Farmer trainings

- Trained community farming members on Agricultural Marketing (Virtual)
- Trained farmers on business plan development

5. Youth and student engagements

- Successfully participated in the established the Junior Chamber International at the University of Fort Hare.
- Member: Agricultural Youth Structure in North West Province
- Conducted Career Expo programmes with NMU and Dr Christian Foundation

6. Dr Christian Foundation (NPO)

- Founder and Executive member of Dr Mzuyanda Christian Foundation, which is responsible for:
 - ✚ Fundraising for the community of Idutywa in the Eastern Cape for their farming projects.
 - ✚ Raising awareness on water use for agriculture in the face of climate change.
 - ✚ Community projects and school gardens for food security
 - ✚ Back to School Campaign - Shoe and school uniform donations

7. Conference talks, TV and Radio

- Regular speaker and a chairperson at conferences and farmers meetings.
- Radio (umhlobo wenene, Motswedding, YOUFM) and TV (SABC) interviews on economic and agricultural issues.

8. Reviewer/editor of journals

- NRF application internal reviewer - 2024

- Reviewer for International Food and Agribusiness Management (IFAMA) – 2025 Conference papers
- Reviewer for International Food and Agribusiness Management (IFAMA) – 2024 Conference papers
- Reviewer for International Conference on Business Models (IBMA) – 2024 Conference papers
- Reviewer for South African Journal of Agricultural Extension (SASAE) – 2023 Conference papers
- Reviewed a paper for the *Heliyon* “Contextualising household food security: A comparison of two villages, Ambros (Umzimvubu Local Municipality) and Maramanzhi (Musina Local Municipality), South Africa”
- Reviewed a paper for the *Journal of Development and Agricultural Economics* “Gender, participation and Employment Status in Non-farm Activities in Ethiopia: The case of Shebel Berenta Woreda, Amhara Regional State”
- Reviewed a paper for the *Journal of African Journal of Agricultural Research* “Pastoral education: the missing link in Uganda education system
- Reviewed a paper for the *Journal of Human Ecology* “The Effects of Agricultural Credit on Input Use by Smallholder Crop Farmers in the Eastern Cape Province of South Africa”
- Reviewed a paper for the *Journal of Development and Agricultural Economics* “Decent Rural Employment in Different Farming Systems in Tanzania”
- Reviewed a paper for the *Agricultural Economic Association of South Africa* “Comparing export market access and turnover received by male and female emerging citrus growers of South Africa”
- Reviewed a paper for the *Agricultural Economic Association of South Africa* “Comparing export market access and turnover received by male and female emerging citrus growers of South Africa”
- Reviewed a paper for the *Agricultural Economic Association of South Africa* “Determinants of female Participation in agricultural labour market: A Case of Ludlow Village in Ehlanzeni District of Mpumalanga Province, South Africa”
- Reviewed a paper for the *Biotechnology journal* “The Impact of technology adoption on Income and Food Security of Smallholder Cassava Farmers: Empirical Evidence from Indonesia”

ADMINISTRATION

Leadership and Administration

- 2025: Acting programme coordinator for BSc Agricultural Economics and Agribusiness Management
- 2025: Coordinator/Project Manager in the establishment of Agricultural Economics and Agribusiness Management.
- 2025: Coordinator/Project Manager in the establishment of Short Learning Programmes (SLP) in Agribusiness Management.

- 2025: Coordinator of the Curriculum Transformation for Faculty of Agricultural and Natural Sciences, University of Mpumalanga
- 2025: Mentoring 2 Junior Lecturers under the Stewardship programme at University of Mpumalanga
- 2025: Serving as a coordinator of IFAMA Young Professionals (African chapter)
- 2020 – 2022: Secundus to Head of Department, Agricultural Economics and Extension, North West University
- 2019 – 2022: Seminar Organiser: Food security and Policy, North West University
- 2020 – 2023: Served as a group coordinator for the MBA programme at North West University
- 2014: Served as a Chairperson of a Student Organization at University of Fort Hare
- 2017: Served as a Deputy Convener in the Post Graduate Association (Student Leadership), University of Fort Hare.

Committees

- 2025: Chair of the Faculty Engagement Committee, University of Mpumalanga
- 2024: Member of the Schools Research Committees, University of Mpumalanga
- 2023: Chair of the Department of Agriculture committees (Ethics, Community engagement, Nelson Mandela University
- 2019: Interim Chair, Faculty of Natural and Agricultural Sciences Postgraduate Committee, North West University
- 2019: Chair of the Research committee for Agricultural Economics and Extension, North West University
- 2020: Secretary of the Task Team Revitalizing NWU Farm, Faculty of Natural and Agricultural Sciences, North West University
- 2020: Member of Panel/Assessors for PG & Undergraduate (final year) Seminars, Dept. of Agric. & Economics/Extension, North West University

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

1. The International Food and Agribusiness Management Association (IFAMA),
2. Agricultural Economics Association of South Africa (AEASA)
3. African Association of Agricultural Economists (AAEA)
4. International Association of Agricultural Economists (IAAE)
5. South African Society of Agricultural Extension (SASAE)

REFERENCES

Name: Prof. Ajuruchukwu Obi Institution: University of South Africa/African Economic Research Consortium (AERC) Position: Professor/Visiting Professor & Supervisor	Name: Prof. Mulatu Zerihun Institution: Tshwane University of Technology Position: Head of Department (HOD) Tel/Cell: 012 382 6603 Email: Zerihunmf@tut.ac.za
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<p>Name: Prof. J Lekunze Institution: North West University Business School Position: Research Director Tel/Cell: +27 (83) 719 7640 Email: Joseph.Lekunze@nwu.ac.za</p>	<p>Name: Prof. L Motsei Institution: Agricultural Sciences Position: Director of the School Tel/Cell: +27 (78) 866 8786 Email: Lebogang.Motsei@nwu.ac.za</p>
<p>Name: Prof. N Ludidi Institution: University of Mpumalanga Position: Executive Dean Tel/Cell: +27 (13) 002 0287 Email: Ndiko.Ludidi@ump.ac.za</p>	<p>Name: Dr M Khapayi Institution: Nelson Mandela University Position: Head of Department Tel/Cell: +27 (64) 907 5131 Email: musa.khapayi@mandela.ac.za</p>