

# CURRICULUM VITAE

HENRY JORDAAN

Confidential

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## 2. UNIVERSITY CAREER

All degrees completed and received at the University of the Free State:

Date	Degree
2004	B.Sc.Agric (Agricultural Economics)
2005	B.Sc.Agric.Hons (Agricultural Economics)
2006	M.Sc.Agric (Agricultural Economics) <sup>1, 2</sup>
2012	Ph.D. (Agricultural Economics) <sup>3</sup>

<sup>1</sup> Obtained degree with distinction

<sup>2</sup> Title of M.Sc. Agric thesis: Forward Pricing Behaviour of Maize Producers in Price Risk Management: The Case of Vaalharts

<sup>3</sup> Title of PhD thesis: New Institutional Economic analysis of emerging irrigation farmers' food value chains

## 3. NRF RATING

Unrated.

## 4. MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

Date	Description
2023 - present	International Food and Agribusiness Management Association (IFAMA)
2015 - present	Water Footprint Research Alliance (WFRA)
2015 - present	International Water Association (IWA)
2007 - present	International Farm Management Association (IFMA)
2006 - present	South African National Committee on Irrigation and Drainage (SANCID)
2005 - present	Agricultural economics working group of the Orange Free State (LEWOVS)
2005 - present	Agricultural Economics Association of South Africa (AEASA)

## 5. RESEARCH OUTPUTS

### 5.1. SCIENTIFIC PUBLICATIONS (PUBLISHED)

I have published **48** articles in peer reviewed scientific journals indexed by Scopus, of which **20** articles were published in the last five years (since **2019**). My Scopus h-index is **14**, and my Web of Science h-index is **13**.

- Pfunzo, R., Bahta, Y.T., and Jordaan, H. (2024). Insights into the impact of irrigation agriculture on the economy of the Limpopo Province, South Africa: A social accounting matrix multiplier analysis. *Agriculture* 2024, 14, 1086. **(Q1 Journal)**

- Monteiro, M.A., Bahta, Y.T., and Jordaan, H. (2024). A systematic review of drivers of water-use behaviour among agricultural water users. *Water* 2024,16,1899. **(Q1 Journal)**
- Kotze, H.C., Qotoyi, M.S.M.A., Bahta, Y., Jordaan, H., and Monteiro, M.A. (2024). A systematic review and meta-analysis of factors influencing water use behaviour and efficiency of agricultural production in South Africa. *Resources* 2024,13,94. **(Q2 Journal)**
- Pilane, P.M., Jordaan, H. and Bahta, Y.T. (2024). A systematic review of social sustainability indicators for water use along the agricultural value chain. *Hydrology*, 2024,11(5),72. **(Q2 Journal)**
- Marais, M., Jordaan, H., Lombard, W.A., and Bahta, Y.T. (2024). Assessing the potential of a niche market for wool products in South Africa. *AIMS Agriculture and Food* 9(1):108-128. **(Q2 Journal)**
- Madende, P., Henning, J.I.F., and Jordaan, H. (2023). Tailormade development pathways: a framework to enhance youth participation in agriculture. *Social Sciences*, 2023,12,630. **(Q2 Journal)**
- Madende, P., Henning, J.I.F., and Jordaan, H. (2023). Accounting for heterogeneity among youth: a missing link in enhancing youth participation in agriculture – a South African case study. *Sustainability* 2023,15(5),4981. **(Q2 Journal)**
- Henning, J.I.F., Jammer, B.D., and Jordaan, H. (2022). Youth participation in agriculture, accounting for entrepreneurial dimensions. *The Southern African Journal of Entrepreneurship and small business management* 14(1): 1-14 **(Q3 Journal)**
- Ejovi. A.A., Bahta, Y.T. and Jordaan, H. (2022). Exploring Biblioshiny for historical assessment of global research on sustainable use of water in agriculture. *Sustainability* 2022,14(17):10651 **(Q1 Journal)**
- Netshifhefhe, K. and Jordaan, H. (2022). The water footprint of biodiesel produced from sunflower in South Africa. *Water* 2022,14(7),1141. **(Q2 Journal)**
- Harding, K.G., Friedrich, E., Jordaan, H., Le Roux, B., Notten, P., Russo, V., Suppen-Reynaga, N., Van der Laan, M., Goga ,T. (2021). Status and prospects of life cycle assessment and carbon and water footprint studies in South Africa. *International Journal of Life Cycle Assessment* 26(1):26-49. **(Q1 Journal)**
- Matlou, R., Bahta, Y.T., Owusu-Sekyere, E., and Jordaan, H. (2021). Impact of agricultural drought resilience on the welfare of smallholder livestock farming households in the Northern Cape Province of South Africa. *Land* 2021, 10(6),562. **(Q2 Journal)**
- Maré, F.A. and Jordaan, H. (2021) The water footprint of primary and secondary processing of beef from different cattle breeds: a value fraction allocation model. *Sustainability* 2021,13,6914 **(Q2 Journal)**

- Adetoro, A.A., Owusu-Sekyere, E., and Jordaan, H. (2020). Alleviating water shortages by decreasing the water footprint in sugarcane production: The impacts of different soil mulching techniques. *Groundwater for sustainable development* 2020,11,100464: (Q1 Journal)
- Jordaan, H., and Bahta, Y.T. (2020). The Economic impact of policy interventions to mitigate water use in irrigation agriculture in South Africa. *Journal of Human Ecology*. 2020,71(13),8-15. (Q4 Journal)
- Bahta, Y.T., Jordaan, H., and Sabastain, G. (2020). Agricultural management practices and factors affecting technical efficiency in Zimbabwe maize farming. *Agriculture* 2020,10,78. (Q2 Journal)
- Owusu-Sekyere, E., Abdulai, A., and Jordaan, H. (2020). Heterogeneous demand for ecologically sustainable products on ensuring environmental sustainability in South Africa. *Environmental Economics and Policy Studies* 22, 39-64.
- Maré, F.A. and Jordaan, H. (2019) Industrially finished calves: A water footprint-profitability paradox. *Water* 2019,11,2565.
- Owusu-Sekyere, E., Mahlathi, Y., and Jordaan, H. (2019). Understanding South African consumers' preferences and market potential for products with low water and carbon footprints. *Agrekon*. 58(3):354-368.
- Henning, J.I.F., Bougard, D.A., Jordaan, H., and Matthews, N. (2019). Factors affecting successful agricultural loan applications: the case of a South African credit provider. *Agriculture* 2019,9,243.
- Mohlotsane, P.M., Owusu-Sekyere, E., Jordaan, H., Barnard, J.H., and van Rensburg, L.D. (2018). Water footprint accounting along the wheat-bread value chain: Implications for sustainable and productive water use benchmarks. *Water*, 10(9):1-16.
- Lombard, W.A., Maré, F.A., and Jordaan, H. (2018). The influence of animal traits on feedlot profitability of Santa Gertrudis cattle in South Africa. *Agrekon*, 57(2):101-107.
- Ogundeji, A.A., Jordaan, H., and Groenewald, J. (2018). Economics of climate change adaptation: a case study of Ceres – South Africa. *Journal of Climate and development* 10(4):377-384.
- Lubinga, M.H., Ogundeji, A.A., Jordaan, H. and Verschoor, A.J. (2017). Impact of European Union Generalized System of Preferences scheme on fruit and vegetable exports from East Africa: A preference margin approach. *Outlook On Agriculture*. 46(3):213-222.
- Ogundeji, A.A. and Jordaan, H. (2017). A simulation study on the effect of climate change on crop water use and chill unit accumulation. *South African Journal of Science* 113(7/8):1-7.

- Owusu-Sekyere, E., Jordaan, H., and Chouchane, H. (2017). Evaluation of water footprint and economic water productivities of dairy products of South Africa, *Ecological Indicators* 83(2017):32-40.
- Owusu-Sekyere, E., Scheepers, M.E., and Jordaan, H. (2017). Economic water productivities along the dairy value chain in South Africa: Implications for sustainable and economically efficient water-use policies in the dairy industry. *Ecological Economics* 134(2017):22-28.
- Donkor, E., Owusu-Sekyere, E., Owusu, V., and Jordaan, H. (2016). Impact of agricultural extension service on adoption of chemical fertilizer: Implications for rice productivity and development in Ghana. *NJAS – Wageningen Journal of Life Sciences*, 79(2016):41-49. Doi.org/10.1016/j.njas.2016.10.002.
- Donkor, E., Owusu-Sekyere, E., Owusu, V., and Jordaan, H. (2016). Impact of row-planting adoption on productivity of rice farming in Northern Ghana. *Review of Agricultural and Applied Economics*. 2016:19(2)3-12, doi:10.15414/raae.2016.19.02.03-12.
- Owusu-Sekyere, E., Scheepers, M.E. and Jordaan, H. (2016). Water footprint of milk produced and processed in South Africa: Implications for policy-makers and stakeholders along the dairy value chain. *Water* 2016,8,322:1-12.
- Henning, J.I.F. and Jordaan, H. (2016). Determinants of Financial Sustainability for Farm Credit Applications—A Delphi Study. *Sustainability*, 2016,8, 77.
- Scheepers, M.E. and Jordaan, H. (2016). Assessing the blue and green water footprint of Lucerne for milk production in South Africa. *Sustainability* 2016,8,49:1-9.
- Jirgi, A.J., Grove, B., Jordaan, H., Viljoen, M.F., and Nmadu., J.N. (2015). Sources of risk and management strategies as perceived by monocrop and intercrop farmers in Kebbi State, Nigeria. *Asian Journal of Agricultural Extension, Economics and Sociology* 6(1):34-44.
- Jirgi, A.J., Jordaan, H, Grove, B., Viljoen, M.F., and Nmadu, J.N. (2015). Technical efficiency of millet/cowpea farmers in Kebbi State Nigeria: A Double bootstrapping approach. *British Journal of Economics, Management and Trade*, 5(3):366-373.
- Lubinga, M., Ogundeji, A., and Jordaan H. (2014). East African Community's trade potential and performance with European Union: A perspective of selected fruit and vegetable commodities. *European Scientific Journal*, Special edition 1:430-443.
- Jirgi, A.J., Grove, B., Jordaan, H, Viljoen, M.F., and Nmadu, J.N. (2014). Estimating technical efficiency and the metatechnology ratio using the metafrontier approach from cropping systems in Kebbi State, Nigeria. *International Journal of Development and Sustainability*, 3(7):1538-1548.

- Owusu-Sekyere, E., Owusu, V. and Jordaan, H. (2014). Consumer preferences and willingness to pay for beef food safety assurance labels in the Kumasi Metropolis and Sunyani Municipality of Ghana. *Food Control* 46:152-159.
- Jordaan, H., Grové, B., and Backeberg, G.R. (2014). Conceptual framework for value chain analysis for poverty alleviation. *Agrekon* 53(1):1-25.
- Jordaan, H. and Grové, B. (2013). Maximising the contribution of irrigated agriculture to poverty alleviation - the case of smallholder cabbage producers from Zanyokwe Irrigation Scheme. *Outlook on Agriculture* 42(4):285-290.
- Jordaan, H. and Grové, B. (2013). Transaction cost analysis of raisins marketing by emerging farmers from Eksteenskuil, South Africa. *Agrekon* 52(4):21-42.
- Jordaan, H. and Grové, B. (2013). Exploring social capital of emerging farmers from Eksteenskuil, South Africa. *Development Southern Africa* 30(4-5):508-524.
- Mare, F.A., Taljaard, P.R., and Jordaan, H. (2013). Consumer preferences for beef with specific reference to fat colour: The case of Cape Town, South Africa. *International Journal of Agricultural Management* 2(3):141-148.
- Israel-Akinbo, S.O., Matthews, N., Jordaan, H., Kundhlande, G. (2013). The economic cost of air pollution in Mangaung metro municipality: A case study in south Africa. *African Journal of Environmental Science and Technology* 7(7):718-724.
- Jordaan, H., Grové, B. and Matthews, N. (2013). Investigating potential financial gains from using production inputs more efficiently. *Agrekon* 52(sup1):87-100.
- Shiimi, T., Taljaard, P.R., and Jordaan, H. (2012). Transaction costs and cattle farmers' choice of marketing channel in North-central Namibia. *Agrekon*. 51(1):42-58.
- Worako, T., Jordaan H., and van Schalkwyk, H.D. (2011). The effects of coffee price volatility and risk on Ethiopian coffee producers: ARCH/GARCH approach. *Agrekon* 50(3):90-108.
- Monk, M.J., Jordaan H., and Grové B. (2010). Factors affecting the price volatility of July futures contracts for white maize in South Africa. *Agrekon* 49(4):446-458.
- Jordaan, H. and Grové, B. (2010). Factors affecting forward pricing behaviour: Implications of alternative regression model specifications. *South African Journal of Economic and Management Sciences (SAJEMS)* 13(2):113-129.
- Idsardi, E.F., Jordaan, H. And van Schalkwyk, H.D. (2010). A characterisation of success factors of agricultural development projects in the Free State Province. *Journal for Development Support* 2:39-57.



- Jordaan, H. and Grové, B. (2008). Factors affecting the level to which Vaalharts maize producers are willing to use forward pricing in price risk management. *Agrekon*, 47(1): 102-115.
- Jordaan, H. and Grové, B. (2007). Factors affecting maize producers' adoption of forward pricing in price risk management: The case of Vaalharts. *Agrekon*, 46(4): 548-565.
- Jordaan, H., Grové, B., Jooste, A. and Alemu, Z.G. (2007). Measuring the price volatility of certain field crops in South Africa using the ARCH/GARCH approach. *Agrekon*, 46(3): 306-322.

## 5.2. PUBLISHED PEER REVIEWED CONFERENCE PROCEEDINGS

I have **17** contributed papers that were published as part of peer reviewed conference proceedings, of which **8** were published in that last five years (since **2019**).

- Monteiro, M.A., Bahta, Y.T., and Jordaan, H. (2024). *Water resilience and change of water use behaviour*. Paper presented at the 24<sup>th</sup> International Farm Management Congress, Saskatoon, Canada, 7<sup>th</sup> – 12<sup>th</sup> July 2024.
- Henning, J.I.F. and Jordaan, H. (2024). *Exploring youths' aspirations, perceptions, and interest towards participation within the Agricultural Sector*. Paper presented at the 24<sup>th</sup> International Farm Management Congress, Saskatoon, Canada, 7<sup>th</sup> – 12<sup>th</sup> July 2024.
- Motaung, N.A. and Jordaan, H. (2022). *Sustainable water use for tobacco production*. Paper presented at the 23<sup>rd</sup> International Farm Management Congress, Copenhagen, Denmark, 26<sup>th</sup> June – 1<sup>st</sup> July 2022.
- Bahta, Y.T., Lombard, W.A. and Jordaan, H. (2022). *The effect of monetary policy on agricultural production of South Africa*. Paper presented at the 23<sup>rd</sup> International Farm Management Congress, Copenhagen, Denmark, 26<sup>th</sup> June – 1<sup>st</sup> July 2022.
- Bahta, Y.T., Lombard, W.A. and Jordaan, H. (2022). *Trade regimes and welfare in Lesotho*. Paper presented at the 23<sup>rd</sup> International Farm Management Congress, Copenhagen, Denmark, 26<sup>th</sup> June – 1<sup>st</sup> July 2022.
- Mare, F.A. and Jordaan, H. (2019). *The economic feed consumption of different cattle breeds in a cow-calf production system*. Paper presented at the 22<sup>nd</sup> International Farm Management Congress, Launceston, Tasmania, 3<sup>rd</sup> – 8<sup>th</sup> March 2019.
- Owusu-Sekyere, E. and Jordaan, H. (2019). *The development and promotion of environmentally sustainable food products in South Africa*. Paper presented at the 22<sup>nd</sup> International Farm Management Congress, Launceston, Tasmania, 3<sup>rd</sup> – 8<sup>th</sup> March 2019.

- Van den Heever, M.J.J., Lombard, W.A., and Jordaan, H. (2019). *How can the South African classification system be adapted to meet consumers' demands*. Paper presented at the 22<sup>nd</sup> International Farm Management Congress, Launceston, Tasmania, 3<sup>rd</sup> – 8<sup>th</sup> March 2019.
- Badenhorst, C.G., Van Niekerk, H.N., Jordaan, H., and Strydom, D.B. (2015). *Factors affecting large livestock predation in the North West Province of South Africa*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Hlophe, L., Ogundeji, A.A., and Jordaan, H. (2015). *Analysing the impact of the EU trade policy reform on the sustainability of smallholders sugarcane farming in Swaziland*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Jordaan, H., Bahta, Y.T., and Gunda, S. (2015). Management practices that affect technical efficiency and coping strategies of smallholder maize irrigation farmers in Zimbabwe. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Henning, J.I.F. and Jordaan, H. (2015). *Investigating factors considered in agricultural credit applications, what are currently considered by commercial bank?* Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Matthews, N., Jordaan, H., and Grové, B. (2015). *Efficient Resource use and farmer-to-farmer skill transfers: The case of Eksteenskuil raisin producers, South Africa*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Jordaan, H., Grové, B., and Matthews, N. (2015). *Determinants of cost efficiency of smallholder farmers: the case of raisin producers from South Africa*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Nieuwoudt, S., Henning, J.I.F., and Jordaan, H. (2015). *Exploring entrepreneurial characteristics of smallholder producers: the case of Eksteenskuil raisin producers*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Jordaan, H. and Grové, B. (2013). Smallholder farmers participating in commercial agri-food chains: learning from Eksteenskuil raisin producers. 19<sup>th</sup> International Farm Management Congress, Warsaw, Poland, 21–26 July 2013. pp.189 – 195.
- Jordaan, H. and Grové, B. (2007). *Investigating factors affecting the forward pricing behaviour of Vaalharts maize producers: A two-step econometric approach*. Proceedings of the 16th International Farm Management Association Congress. Cork, Ireland, 15–20 July 2007. pp. 841-849.

### 5.3. INTERNATIONAL CONFERENCE/WORKSHOP CONTRIBUTIONS

I have 32 papers that were presented at international conferences, of which 7 were presented in the last five years (since 2019).

- Marais, M., Lombard, W.A., and Jordaan, H. (2023). *Identifying a niche market for local, hand-made, and socially responsible wool products in South Africa*. Paper presented at the 2023 ETipu IFAMA World Conference, Christchurch, New Zealand, 17<sup>th</sup> – 20<sup>th</sup> June 2023.
- Motaung, N.A. and Jordaan, H. (2022). *Sustainable water use for tobacco production*. Paper presented at the 23<sup>rd</sup> International Farm Management Congress, Copenhagen, Denmark, 26<sup>th</sup> June – 1<sup>st</sup> July 2022.
- Bahta, Y.T., Lombard, W.A. and Jordaan, H. (2022). *The effect of monetary policy on agricultural production of South Africa*. Paper presented at the 23<sup>rd</sup> International Farm Management Congress, Copenhagen, Denmark, 26<sup>th</sup> June – 1<sup>st</sup> July 2022.
- Bahta, Y.T., Lombard, W.A. and Jordaan, H. (2022). *Trade regimes and welfare in Lesotho*. Paper presented at the 23<sup>rd</sup> International Farm Management Congress, Copenhagen, Denmark, 26<sup>th</sup> June – 1<sup>st</sup> July 2022.
- Mare, F.A. and Jordaan, H. (2019). *The economic feed consumption of different cattle breeds in a cow-calf production system*. Paper presented at the 22<sup>nd</sup> International Farm Management Congress, Launceston, Tasmania, 3<sup>rd</sup> – 8<sup>th</sup> March 2019.
- Owusu-Sekyere, E. and Jordaan, H. (2019). *The development and promotion of environmentally sustainable food products in South Africa*. Paper presented at the 22<sup>nd</sup> International Farm Management Congress, Launceston, Tasmania, 3<sup>rd</sup> – 8<sup>th</sup> March 2019.
- Van den Heever, M.J.J., Lombard, W.A., and Jordaan, H. (2019). *How can the South African classification system be adapted to meet consumers' demands*. Paper presented at the 22<sup>nd</sup> International Farm Management Congress, Launceston, Tasmania, 3<sup>rd</sup> – 8<sup>th</sup> March 2019.
- Owusu-Sekyere, E. and Jordaan, H. (2017). *Compensating welfare estimates for water and carbon footprint sustainability policy changes in South Africa*. Paper presented at the Agricultural Economics Society Annual Conference to be held at The Royal Dublin Society, Dublin, Ireland, 24<sup>th</sup> to 26<sup>th</sup> of April, 2017.
- Mohlotsane, P., Owusu-Sekyere, E., Jordaan, H. (2017). *Water footprint assessment along the wheat-bread value chain towards the sustainable use of freshwater in South Africa*. Paper Presented at the European Geoscience Union (EGU) General Assembly 2017, 23-28 April 2017, Vienna, Austria.
- Jordaan, H., Mare, F., Owusu-Sekyere, E., Scheepers, M.E., Mohlotsane, P., and Nkhousa, P. (2017). *Water footprint assessment to inform sustainable food*

*production in South Africa*. Paper presented at the the 6<sup>th</sup> World Sustainability Forum on 27<sup>th</sup> – 28<sup>th</sup> January 2017 in Cape Town.

- Owusu-Sekyere, E., Mahlathi, Y.Y., and Jordaan, H. (2017). Assessment of Consumers' Stated Preferences for Water and Carbon Footprint Sustainability Information: Insights from the Gauteng Province of South Africa. Paper presented at the 6th World Sustainability Forum, 27–28 January 2017, Cape Town, South Africa.
- Jordaan, H. (2016). *Water footprint of agri-food products in South Africa*. Paper presented at the 1<sup>st</sup> conference of the Water Footprint Research Alliance, Garden Court Nelson Mandela Boulevard, Cape Town, 4<sup>th</sup> – 7<sup>th</sup> April 2016.
- Owusu-Sekyere, E., Scheepers, M.E. and Jordaan, H. (2016). *Economic productivity of water along the dairy value chain of South Africa*. Paper presented at the 1<sup>st</sup> conference of the Water Footprint Research Alliance, Garden Court Nelson Mandela Boulevard, Cape Town, 4<sup>th</sup> – 7<sup>th</sup> April 2016.
- Scheepers, M.E., Owusu-Sekyere, E., and Jordaan, H. (2016). Water footprint of milk produced and processed in South Africa: Implications for policy-makers and stakeholders along the dairy value chain. Paper presented at the 1<sup>st</sup> conference of the Water Footprint Research Alliance, Garden Court Nelson Mandela Boulevard, Cape Town, 4<sup>th</sup> – 7<sup>th</sup> April 2016.
- Owusu-Sekyere, E., Owusu, V., Donkor, E., and Jordaan, H. (2016). *Heterogeneous preferences for functional ingredients and health claims attributes of beef: evidence from Ghana*. Paper presented at the Food Studies Conference, University of California, Berkeley, USA, 12-13 October 2016.
- Ogundeji, A.A., Jordaan, H., and Groenwald, J.A. (2015). *Economics of climate change adaptation: a case of Ceres, Western Cape, South Africa*. Paper presented at the 29<sup>th</sup> International Conference of Agricultural Economics, Milan, Italy. 8 – 14 August 2015.
- Jordaan, H., Grové, B., and Matthews, N. (2015). *Benchmarking freshwater used by smallholder raisin producers – a sub-vector efficiency analysis*. Paper presented at the 5<sup>th</sup> World Sustainability Forum, Basel, Switzerland, 7<sup>th</sup> – 9<sup>th</sup> September 2015.
- Scheepers, M.E., Jordaan, H., and Barnardt, J.H. (2015). *Water footprint of milk production in the Free State Province of South Africa*. Paper presented at the 5<sup>th</sup> World Sustainability Forum, Basel, Switzerland, 7<sup>th</sup> – 9<sup>th</sup> September 2015.
- Henning, J.I.F. and Jordaan, H. (2015). *Determinants of financial sustainability for farm credit applications – a Delphi Study*. Paper presented at the 5<sup>th</sup> World Sustainability Forum, Basel, Switzerland, 7<sup>th</sup> – 9<sup>th</sup> September 2015.
- Ogundeji, A.A., Jordaan, H., and Groenewald, J. (2015). *The impact of climate change on crop water use and chill unit accumulation*. Paper presented at the 5<sup>th</sup> World Sustainability Forum, Basel, Switzerland, 7<sup>th</sup> – 9<sup>th</sup> September 2015.

- Badenhorst, C.G., Van Niekerk, H.N., Jordaan, H., and Strydom, D.B. (2015). *Factors affecting large livestock predation in the North West Province of South Africa*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Hlophe, L., Ogundeji, A.A., and Jordaan, H. (2015). *Analysing the impact of the EU trade policy reform on the sustainability of smallholders sugarcane farming in Swaziland*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Jordaan, H., Bahta, Y.T., and Gunda, S. (2015). Management practices that affect technical efficiency and coping strategies of smallholder maize irrigation farmers in Zimbabwe. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Henning, J.I.F. and Jordaan, H. (2015). *Investigating factors considered in agricultural credit applications, what are currently considered by commercial bank?* Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Matthews, N., Jordaan, H., and Grové, B. (2015). *Efficient Resource use and farmer-to-farmer skill transfers: The case of Eksteenskuil raisin producers, South Africa*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Jordaan, H., Grové, B., and Matthews, N. (2015). *Determinants of cost efficiency of smallholder farmers: the case of raisin producers from South Africa*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Nieuwoudt, S., Henning, J.I.F., and Jordaan, H. (2015). *Exploring entrepreneurial characteristics of smallholder producers: the case of Eksteenskuil raisin producers*. Paper presented at the 20<sup>th</sup> International Farm Management Congress, Quebec City, Canada, 12<sup>th</sup> – 17<sup>th</sup> July 2015.
- Lubinga, M.H. Ogundeji, A. and Jordaan, H. (2014). *An econometric analysis of the impact of trade facilitation on Uganda's hot pepper exports to the European Union*. An accepted paper for oral presentation in 2nd International Conference on Economics, Finance and Management Outlooks, Kuala Lumpur, Malaysia, 20-21 December, 2014.
- Lubinga, M.H. Ogundeji, A. and Jordaan, H. (2014). *Climate change and Trade in Agrarian economies: A case study of Uganda*. Paper presented at the IGAD economic conference, Addis Ababa, Ethiopia, 23-25 October, 2014. (Forthcoming).
- Cloete, P.C. and Jordaan, H. (2014). *Transaction Cost Measurement for the Regulations of Live Wildlife Trade in South Africa*. Paper presented at the Congress for Wildlife and Livelihoods on Private and Communal Lands:

Livestock, Tourism and Spirit, YMCA of the Rockies, Estes Park, Colorado, 7-12 September 2014.

- Jordaan, H. and Grové, B. (2013). *Smallholder farmers participating in commercial agri-food chains: learning from Eksteenskuil raisin producers*. Paper presented at the 19<sup>th</sup> International Farm Management Congress, Warsaw, Poland, 21–26 July 2013.
- Jordaan, H. and Grové, B. (2007). *Investigating factors affecting the forward pricing behaviour of Vaalharts maize producers: A two-step econometric approach*. Paper presented at the 16<sup>th</sup> International Farm Management Congress. Cork, Ireland, 15–20 July 2007.

#### **5.4. NATIONAL CONFERENCE CONTRIBUTIONS**

I have **41** papers that were presented at national conferences, of which **3** were presented in the last five years (since **2019**).

- Madende, P., Henning, J.I.F., and Jordaan, H. (2022). Formulation of youth typologies: Accounting for heterogeneity among youth to foster youth participation in agriculture. Paper presented at the 59th conference of the Agricultural Economics Association of South Africa: Swakopmund, Namibia, 2-5 October.
- Bahta, Y. and Jordaan, H. (2019). The economic impact of policy interventions to mitigate water use in irrigation agriculture in South Africa. Paper presented at the 57th conference of the Agricultural Economics Association of South Africa: Bloemfontein, South Africa, 8-10 October.
- Owusu-Sekyere, E., Jordaan, H., and Chapagain, A.K. (2019). How does water and carbon footprint sustainability information influence consumer food choice? Insights from the Gauteng Province of South Africa. Paper presented at the 57th conference of the Agricultural Economics Association of South Africa: Bloemfontein, South Africa, 8-10 October.
- Owusu-Sekyere, E., Mahlathi, Y., and Jordaan, H. (2018). Understanding South African consumers' preferences and market potential for environmentally sustainable products: Implications of water and carbon footprint labels. Paper presented at the 7<sup>th</sup> South African National Commission on Irrigation and Drainage Symposium: Ingwenyama Conference and Sport Resort, White River, South Africa, 13 – 15 November 2018.
- Motaung, N.A., Owusu-Sekyere, E., Jordaan, H. Ogundeji, A.A. and Chapagain, A.K. (2018). Water Footprint of tobacco production in South Africa: Implications for water use policies at a farm level. Paper presented at the 7<sup>th</sup> South African National Commission on Irrigation and Drainage Symposium: Ingwenyama Conference and Sport Resort, White River, South Africa, 13 – 15 November 2018.

- Owusu-Sekyere, E., Mahlothi, Y., and Jordaan, H. (2017). Assessment of consumers' stated preferences for water and carbon footprint sustainability information: Insights from the Gauteng Province of South Africa. Paper presented at the 56th conference of the Agricultural Economics Association of South Africa: Durban, South Africa, 19 – 21 September.
- Mohlotsane, M.P., Owusu-Sekyere, E., and Jordaan, H. (2017). Accounting for the water footprint along the wheat-bread value chain: Does ground water matter? Paper presented at the 56th conference of the Agricultural Economics Association of South Africa: Durban, South Africa, 19 – 21 September.
- Maré, F.A., Jordaan, H., and Mekonnen, M.M. (2017). The water-economy nexus of different beef breeds at the abattoir and deboning plant. Paper presented at the 56th conference of the Agricultural Economics Association of South Africa: Durban, South Africa, 19 – 21 September.
- Mohlotsane, M.P., Owusu-Sekyere, E., and Jordaan, H. (2016). *Assessing the sustainability of the water footprint of bread in South Africa*. Paper presented at the 6<sup>th</sup> South African National Commission on Irrigation and Drainage Symposium: Worcester, South Africa, 11 – 13 October 2016.
- Nkhousa, P., Matthews, N., and Jordaan, H. (2016) *Water footprint of broiler production in South Africa*. Paper presented at the 6<sup>th</sup> South African National Commission on Irrigation and Drainage Symposium: Worcester, South Africa, 11 – 13 October 2016.
- Bougard, D.A., Henning, J.I.F., Jordaan, H., and Matthews, N. (2016). Classification accuracy of logistic regression and neural networks: the case of a South African agricultural credit provider. Paper presented at the 55th conference of the Agricultural Economics Association of South Africa: Johannesburg, South Africa, 14 – 16 September.
- Nieuwoudt, S., Henning, J.I.F., and Jordaan, H. (2016). Entrepreneurial competencies and financial performance of farmers in South Africa. Paper presented at the 55th conference of the Agricultural Economics Association of South Africa: Johannesburg, South Africa, 14 – 16 September.
- Lubinga, M.H., Verschoor, A., Ogundeji, A.A., & Jordaan, H. (2015). *The impact of the EU-GSP scheme on horticultural exports from Kenya, Tanzania and Uganda: A preference margin approach*. Paper presented at the 54th conference of the Agricultural Economics Association of South Africa: Parys, South Africa, 30 September – 2 October 2015.
- Jordaan, H. and Backeberg, G.R. (2014). *Water footprint assessment and ISO 14046: A synthesis from an expert workshop*. 6<sup>th</sup> South African National Commission on Irrigation and Drainage Symposium, Glenburn Lodge, 18-20 November 2014.
- Scheepers, M.E., Jordaan, H., and Barnard, J.H. (2014). *The Lucerne-Dairy water footprint: some preliminary findings from the Free State Province*. 6<sup>th</sup>

South African National Commission on Irrigation and Drainage Symposium, Glenburn Lodge, 18-20 November 2014.

- Fourie, P., Strydom, D.B., Jordaan, H. and Bahta, Y.T. (2014). *Perception of the factors influencing the competitiveness of the wheat producer in South Africa*. Paper presented at the 53rd conference of the Agricultural Economics Association of South Africa: Eastern Cape, South Africa, 28 September - 1 October 2014.
- Lubinga, M. H., Ogundeji, A. and Jordaan, H. (2014). *Export competitiveness of East Africa's agricultural produce within the EU-market: A case of the Fruits and vegetable sector*. Paper presented at the 53rd conference of the Agricultural Economics Association of South Africa: Eastern Cape, South Africa, 28 September - 1 October 2014.
- Jordaan, H. and Grové, B. (2013). *Determinants of technical efficiency of smallholder raisin farmers – a combined double bootstrap principal component regression*. Paper presented at the 52nd Annual Conference of the Agricultural Economics Association of South Africa, Bela bela, 1 – 3 October 2013.
- Jordaan, H., Grové, B., and Matthews, N. (2013). *Determinants of cost efficiency of smallholder farmers: the case of raisin producers from South Africa*. Paper presented at the 52nd Annual Conference of the Agricultural Economics Association of South Africa, Bela bela, 1 – 3 October 2013.
- Jirgi, A.J., Jordaan, H., Grové, B., Viljoen, M.F., and Nmadu, J.N. (2013). *Technical efficiency of inter cropping farmers from Kebbi State, Nigeria*. Paper presented at the 52nd Annual Conference of the Agricultural Economics Association of South Africa, Bela bela, 1 – 3 October 2013.
- Badenhorst, C.G., van Niekerk, H.N., Jordaan, H., and Strydom, D.B. (2013) *Factors affecting small livestock predation in the North West Province of South Africa*. Paper presented at the 52nd Annual Conference of the Agricultural Economics Association of South Africa, Bela bela, 1 – 3 October 2013.
- Owusu-Sekyere, E., Mare, F.A., and Jordaan, H. (2013). *Consumers' preference for beef products: Evidence from Ghana*. Paper presented at the 52nd Annual Conference of the Agricultural Economics Association of South Africa, Bela bela, 1 – 3 October 2013.
- Lombard, W.A., Mare, F.A., and Jordaan, H. (2013). *The influence of animal traits and carcass characteristics of Santa Gertrudis cattle on feedlot profitability*. Paper presented at the 52nd Annual Conference of the Agricultural Economics Association of South Africa, Bela bela, 1 – 3 October 2013.
- Lubinga, M.H., Ogundeji, A.A., and Jordaan, H. (2013). *The influence of climate change on Uganda's international trade flows: Evidence from weather anomalies*. Paper presented at the biennial conference of the Economic Society of South Africa, Bloemfontein, South Africa, 25-27 September 2013.



- Jordaan, H. and Grové, B. (2012). *Optimising water use along the value chain for cabbages produced by emerging farmers from Zanyokwe Irrigation Scheme*. 5<sup>th</sup> South African National Commission on Irrigation and Drainage Symposium, Alpine Heath Resort, 21-23 November 2012.
- Van der Merwe, E., Grové, B., Jordaan, H., and Matthews, N. (2012). Economic literacy and the socio-economic factors affecting economic literacy among small-scale raisin producers in Eksteenskui. Paper presented at the 50<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Bloemfontein, 1 – 3 October 2012
- Jordaan, H., Grové, B. and Matthews, N. (2012). *Investigating potential financial gains from using production inputs more efficiently*. Paper presented at the 50<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Bloemfontein, 1 – 3 October 2012
- Khaile, P.M.E., Jordaan, H., Matthews, N., and Grové, B. (2010). *Investigating factors causing inefficient use of resources: the case of emerging raisin producers at Eksteenskui*. 4<sup>th</sup> South African National Commission on Irrigation and Drainage Symposium, Upington, 17-19 November 2010.
- Jordaan, H. and Grové, B. (2010). *Analysis of the governance structure used by Eksteenskui raisin producers: Is there a need for more vertical coordination?* Paper presented at the combined 3<sup>rd</sup> Annual Conference of the African Association of Agricultural Economists and 49<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, The Western Grand Cape Town Arabella Quays, Cape Town, 20-23 September 2010.
- Shiimi, T., Taljaard, P.R., and Jordaan, H. (2010). *Transaction costs and cattle farmers' choice of marketing channels in North-Central Namibia*. Paper presented at the combined 3<sup>rd</sup> Annual Conference of the African Association of Agricultural Economists and 49<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, The Western Grand Cape Town Arabella Quays, Cape Town, 20-23 September 2010.
- Taljaard, P.R., Alemu, Z.G., Jooste, A., and Jordaan, H. (2009). *The impact of the Namibian small stock marketing scheme on South Africa*. Paper presented at the 47<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Elangeni Hotel, Durban, 21-23 September 2009.
- Maré, F.A., Taljaard, P.R., and Jordaan, H. (2009). *Consumer preference for beef, with specific reference to fat colour: The case of Cape Town, South Africa*. Paper presented at the 47<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Elangeni Hotel, Durban, 21-23 September 2009.
- Strydom, D.B., van Niekerk, H.N., Jordaan, H. and Willemse, B.J. (2009). *The evaluation of factors affecting longer term farm contracts in the Frozen Fries processing industry*. Paper presented at the 47<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Elangeni Hotel, Durban, 21-23 September 2009.

- Jordaan, H. and Grové, B. (2009) Institutional economic analysis of raisin production and marketing in South Africa: learning from Eksteenskuil raisin producers. 47<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Elangeni Hotel, Durban, 21-23 September 2009.
- Idsardi, E., Jordaan, H., and van Schalkwyk, H.D. (2009). A characterisation of success factors of projects funded by the Comprehensive Agricultural Support Program in the Free State Province. Paper presented at the 43<sup>rd</sup> conference of the South African Society of Agricultural Extension (SASAE) Potchefstroom, May 2009.
- Jordaan, H., Grové, B., and Khaile, M. (2008). *Assessment of the contribution of water use to value chains in agriculture: a conceptual framework*. 3<sup>rd</sup> South African National Commission on Irrigation and Drainage Symposium, Langebaan, 18-20 November 2008.
- Monk, M.J., Grové, B. and Jordaan, H. (2007). *Factors affecting July futures price volatility in the South African maize industry* 45<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Johannesburg, 26–28 September 2007.
- Jordaan, H. and Grové, B. (2007). *Factors affecting forward pricing behavior: Implications of alternative regression model specifications*. 45<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Johannesburg, 26–28 September 2007.
- Jordaan, H., Grové, B., Annandale, J.G., Steyn, J.M., Benadé, N., and Pott, A. (2006). The development of a decision support system to evaluate the profitability of alternative irrigation schedules taking risk into account. Paper presented at the 2006 symposium of the South African National Committee on Irrigation and Drainage (SANCID), Aventura Swadini, November 2006.
- Jordaan, H. and Grové, B. (2006). *Factors affecting maize producers' use of forward pricing methods in price risk management: The case of Vaalharts*. Paper presented at the 44<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Grahamstown, 20–22 September 2006.
- Jordaan, H., Spies, D., Jooste, A. and Grové, B. (2006). *Price volatility in the Fresh produce markets in South Africa*. Paper presented at the 44<sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Grahamstown, 20–22 September 2006.

#### **5.5. SCIENTIFIC POSTERS (NATIONALLY AND INTERNATIONALLY)**

- Lombard, W.A., Jordaan, H., Naude, D., Stott, T., Owusu-Sekyere, E. and Mare, F.A. (2024). *Livestock producers' preference for Oxytetracycline Antibiotics*. Poster presented at the 32<sup>nd</sup> International Conference of Agricultural Economists, 2-7 August 2024, New Delhi, India.

- Terblanche, L., Willemse, B.J., Jordaan, H., and Cloete, P.C. (2008). *Employing Farmer Controlled Business Models to aid the potential transition of emerging to commercial farmers*. Paper presented at the 46<sup>th</sup> annual conference of the Agricultural Economics Association of South Africa (AEASA), Windhoek, September 2008.

## 5.6. EDITING OF BOOKS

- Bergman, M. and Jordaan, H. (2017). *Towards a sustainable agriculture: farming practices and water use* (Frontiers in Sustainability): MDPI. ISBN-13: 978-303842330.

## 5.7. PUBLISHED RESEARCH REPORTS

- Henning, J.I.F. and Jordaan, H. (2023). Entrepreneurial development for establishing small farming businesses and employment by youth in rain-fed crop farming. (Water Research Commission: K5/2789//4). (Project team member).
- Jordaan, H. (2022). Assessing the water footprints of selected fuel and fibre crops in South Africa. WRC Report 2553/1/22. Pretoria. (Project leader).
- Jarman, C. (2020). Water footprint as an indicator of sustainable table and wine grape production. WRC Report 2710/1/20. (Project team member).
- Jordaan, H., Owusu-Sekyere, E., Scheepers, M.E., Nkhua, P.G., Mohlotsane, M.P., Mahlathi, Y., Maré, F.A., van Rensburg, L.D., and Barnard, J.H. (2019). *Determining the water footprints of selected field and forage crops, and derived products in South Africa*. WRC Report 2397/1/19. Pretoria. (Project leader).
- Jordaan, H. and Grové, B. (2012). *An economic analysis of the contribution of water use to value chains in agriculture*. WRC Report No. 1779/1/12, Water Research Commission, Pretoria.

## 5.8. UNPUBLISHED RESEARCH REPORTS

- Taljaard, P.R., Alemu, Z.G., Jooste, A. and Jordaan, H. (2009). *The impact of the Namibian Small Stock Marketing Scheme on South Africa*. Report to the National Agricultural Marketing Council (NAMC). Available at <http://www.namc.co.za/dnn/LinkClick.aspx?fileticket=Ho7fnPc6xFE%3D&tabid=116&mid=543>
- Jooste, A., Jordaan, H., Alemu, Z.G. and Spies, D. (2006). *Investigation into price trends and market integration in selected fresh produce markets in South Africa*. Report prepared for the National Agricultural Marketing Council (NAMC)

[Online].

Available

from:

[http://www.namc.co.za/ASSETS/PDF/Price\\_Volatility\\_Dec06.pdf](http://www.namc.co.za/ASSETS/PDF/Price_Volatility_Dec06.pdf)

## 5.9. SOURCING OF RESEARCH FUNDING

- Henning, J.I.F. and Jordaan, H. (2023). Entrepreneurial development for establishing small farming businesses and employment by youth in rain-fed crop farming. (Water Research Commission: K5/2789//4). (R3.3 million as project team member).
- Jordaan, H. (2022). Assessing the water footprints of selected fuel and fibre crops in South Africa. WRC Report 2553/1/22. Pretoria. (R3 million as project leader).
- Jarman, C. (2020). Water footprint as an indicator of sustainable table and wine grape production. WRC Report 2710/1/20. (R2.98 million as project team member).
- Jordaan, H., Owusu-Sekyere, E., Scheepers, M.E., Nkhua, P.G., Mohlatsane, M.P., Mahlathi, Y., Maré, F.A., van Rensburg, L.D., and Barnard, J.H. (2019). *Determining the water footprints of selected field and forage crops, and derived products in South Africa*. WRC Report 2397/1/19. Pretoria. (R3 million as project leader).
- Jordaan, H. and Grové, B. (2012). *An economic analysis of the contribution of water use to value chains in agriculture*. WRC Report No. 1779/1/12, Water Research Commission, Pretoria. (R2.4 million as project team member)

## 6. TEACHING AND LEARNING

### 6.1 TEACHING LOAD

- **Current Modules**

- AGEC2614 (Farm planning and Management) (50%)
- AGEC3714 (Managerial Economics) (50%)
- AGEC3721 (Seminar in Agricultural Economics) (100%)
- AGEC6815 (Advanced production and natural resource and environmental Economics) (50%)
- IWRM5810 (Post graduate Diploma in Integrated Water Resource Management) (10%)

- **Other Modules Taught Before**

- AGE1634 (Business Functions)
- AGE3744 (Agricultural Policy and Development)
- AGE6800/AGMA6800 (Honours Research Module)
- AGE6814 (Advanced Production Economics)
- AGE6835 (Macro economics)
- LEK604 (Econometrics)

## 6.2 STUDENT SUPERVISION

I have supervised and co-supervised 7 PhD students and 25 Masters students in my career. I currently have 6 PhD students and 4 Masters under my supervision/co-supervision who are at different stages with their studies.

### 6.2.1 PhD Students

- **Main Supervisor**

- Du Preez, L. (Current). *Framework for work integrated learning by agricultural management students*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Pilane, P. (Current). *Sustainable water use for wine grapes in South Africa*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Mare, F. (2018). *The water-economy nexus of beef produced from different breeds of cattle*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Owusu-Sekyere, E. (2017). *Multiple footprint indicator assessment: Implications on consumers' preferences and welfare*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Henning, J.I.F. (2016). *Credit scoring model: Incorporating entrepreneurship*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Lubinga, M.H. (2014). *The influence of climate change and preferential trade agreements on East Africa's fruit and vegetables exports: A case of the EU-GSP scheme*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.

- **Co-Supervisor**

- Ramigo, P. (current) *Impact of irrigated agriculture on the South African economy*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof Y.T. Bahta).
- Naude, D. (current) *Developing a framework for using extended reality in agricultural education*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr. W.A. Lombard).
- Mokhatla, P. (Current). *An Integrated Business Support Framework for Small, Medium, and Micro Agro-processing Enterprises*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof Y.T. Bahta).
- Monteiro, M. (Current). *Assessing the social and economic impact of changed water use behaviour*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof Y.T. Bahta).
- Madende, P. (2023). *Tailormade development pathways for youth participation in agriculture*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr J.I.F. Henning).
- Ogundeji, A.A. (2013). *The economics of climate change adaptation strategies in the Ceres region, Western Cape*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof J. Groenewald).
- Jirgi, A.J. (2013). *Technical efficiency and risk preferences of cropping systems in Kebbi State, Nigeria*. PhD Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof M.F. Viljoen).

### 6.2.2 Masters Students

- **Main Supervisor**

- Makana, A. (current). *The use of ICTS as means to reach agricultural commodity exchange markets: the case of smallholder farmers in the Eastern Cape Province*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Wessels, E. (current). *Virtual water trade of broilers in South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Marais, M. (2022). *Identifying a niche market for local, handmade wool products in South Africa*. M Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein

- Richards, C.C. (2021). *The water-economy nexus of the South African cotton textile value chain*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Netshifhefhe, K. (2020). *Water footprint and economic feasibility assessment of biodiesel produced from sunflower in South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Tshibalo, T. (2019). *Water footprint assessment of irrigated cotton production in South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Adterora, A. (2018). *Sustainability of irrigated sugarcane production*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Nkhousa, P. (2017). *Water footprint of poultry production in the Free State Province, South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Mohlatsane, P. (2017). *Water footprint of irrigated wheat and derived wheat products in South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Mashlate, Y. (2017). *Consumers' willingness to pay for water footprint information on product labels in South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Ndjodi, M. (2016). *Technical efficiency of maize producers from Namibia*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Masango, R. (2015). *Performance of smallholder farmers' cooperatives – a members' perspective*. M Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Scheepers, M. (2015). *Waterfootprint of luserne-dairy value chain in South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Owusu-Sekyere, E. (2014). *Consumer preferences and willingness to pay for beef attributes in Ghana*. M.Sc. Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Gunda, S. (2013). *Elusive Livelihoods: An investigation of the productivity challenges faced by smallholder irrigation farmers in semi-arid environments. The case of Tokwane-Ngundu Smallholder Irrigation Scheme in Masvingo South District, Zimbabwe*. Masters in Development Studies, Centre for Development Studies, University of the Free State, Bloemfontein.

- **Co-Supervisor**

- Msila, R. (current). *The impact of climate variability on water use behaviour for smallholder maize producers in selected areas of the Vhembe District Municipality, Limpopo Province, South Africa*. MAgric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Mr. M.A. Monteiro).
- Kotze, H. (current, submitted). *Climate change and water use behaviour of irrigation farmers*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof Y. Bahta).
- Naude, D. (2023). *Investigating South African Livestock Producers' Antibiotic Preferences*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr W.A. Lombard).
- Jammer, B. (2020). *Determining youth entrepreneurial competencies in two rural areas of the Free State*. M Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr J.I.F. Henning)
- Bougard, D. (2017). *Agricultural credit models: identifying high risk applicants*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr J.I.F. Henning).
- Nieuwoudt, S. (2016). *Entrepreneurship and financial performance*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein.
- Badenhorst, C.G. (2014). *The economic cost of large stock predation in the North West Province*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Mr H.M. van Niekerk)
- Hlophe, L. (2014). *Analysing the impact of policy on sustainability of smallholder sugarcane farming in Swaziland: The case of Komati Region*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr A.A. Ogundeji).
- Fourie, P. (2013). *Perception of the critical factors which influence and drive the competitiveness of the wheat producer in South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr D.B. Strydom)
- Israel-Akinbo, S. (2012). *The impact of air quality on health: The case of Mangaung semi-urban area, Free State, South Africa*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Ms N. Matthews).
- Van der Merwe, E. (2012). *Economic literacy as a factor affecting allocative efficiency*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof B. Grové).



- Khaile, P.M.E. (2012). Assessing factors affecting technical efficiency of emerging raisin producers in Eksteenskuil, in the Northern Cape Province, South Africa. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof B. Grové).
- Shiimi, T. (2010). *Transaction costs and cattle farmers' choice of marketing channels in North Central Namibia*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Dr P.R. Taljaard).
- Terblanche, L. (2009). *Transaction cost analysis of dairy marketing in South Africa – a case for farmer controlled businesses*. MSc Agric Thesis, Department of Agricultural Economics, University of the Free State, Bloemfontein. (Main supervisor: Prof B.J. Willemse).

### **6.3 CURRICULUM DEVELOPMENT AND RENEWAL**

- **Development of new programmes**

- BAgric in Agribusiness Management (In process: Submitted for approval at Faculty Board).

- **Developing new modules**

- Water and the Economy – component of IWRM5810 (Post graduate Diploma in Integrated Water Resource Management).
- Inclusion of Water Footprint Assessment in Environmental and Natural Resources Economics component of AGE6815

- **Development of new Short Learning Programmes**

- Coordinate and contribute to the development of three new multidisciplinary Short Learning Programmes:
  - Economics of crops and livestock production
  - Agricultural Project planning
  - Agricultural Commodities Marketing

## 7. ENGAGED SCHOLARSHIP

### 7.1 SERVICE ON EXPERT PANELS/COMMITTEES

Date	Committee / Group
2024-current	Invited to serve as chairperson on the committee to adjudicate the Best Masters thesis award at the annual conference of the Agricultural Economics Association of South Africa.
2023	Coordinator of Agricultural Assurance Committee to evaluate pre-feasibility study of agricultural projects for Kumba Iron Ore Limited.
2022	Invited to participate in a workshop: Potential of African indigenous crops as future crops to combat climate change – celebrating African heritage organised by the Water Research Commission.
2019-2023	Invited to serve as panel member on the committee to adjudicate the Best Publication award at the annual conference of the Agricultural Economics Association of South Africa.
2018-2022	Invited to serve on the reference group of a research project, Water use in food value chains of indigenous crops with special focus on production and postharvest handling of food products, for the Water Research Commission (K5/2715//4).
2016-2018	Invited to serve as panel member on the committee to adjudicate the Best Masters Thesis award at the annual conference of the Agricultural Economics Association of South Africa.
2016	Invited to serve as Panel Member to evaluate project proposals submitted to the National Research Foundation of South Africa in the IRG – South Africa / France Science and Technology Collaboration.
2016	Invited to serve as Panel Member to evaluate project proposals submitted to the National Research Foundation of South Africa in the IRG – South Africa / Wallonia-Brussels Federation Science and Technology Research Collaboration.
2016	Invited to co-convene a special session on Water Footprint Assessment at the AGU Fall Meeting, 12- 16 December 2016, San Francisco.
2016	Invited to serve as Panel Member to evaluate project proposals submitted to the National Research Foundation of South Africa in the IRG – South Africa / Austria Joint Scientific and Technological Cooperation.
2016	Invited to participate in a workshop, “Conceptualising workshop to develop a research niche area in sustainability and systems analysis for sustainability, at the University of the Western Cape”, Cape Town, 23-24 January 2016.
2016	Invited to participate in the Academic Leadership Programme at the University of the Free State, for the year 2016.
2015	Invited to co-convene a special session on Water Footprint Assessment at the World Water Congress on 25th to 29th May 2015, Edinburgh International Conference Centre, Edinburgh, Scotland.
2014-2019	Invited to serve on the reference group of a research project, <i>Guidelines for technology transfer to manage irrigation induced salinity with precision agriculture</i> , for the Water Research Commission (K5/2499//4).

2014	Invited to participate in MOSA status workshop, Loskop Aventura Resort, Groblersdal, 22 <sup>nd</sup> October 2014.
2013-2017	Invited to serve on the reference group of a research project, <i>Water footprint of selected vegetable and fruit crops produced in South Africa</i> , for the Water Research Commission (K5/2273//4).
2015-2016	Convener of the organising committee of the 1 <sup>st</sup> conference of the Water Footprint Research Alliance, April, 2016.
2011-2012	Member of organising committee of the 5 <sup>th</sup> biennial SANCID symposium November 2012
2009-2010	Convener of organising committee of the 4 <sup>th</sup> biennial SANCID symposium November 2010.
2009-2010	Winter school sub-committee of UFS Wellness Committee
2009-2010	LEK forum
2009	Invited to be primary presenter at the workshop, “Productive water use, value chains and mainstreaming emerging farmers” convened by the WRC at the 47 <sup>th</sup> annual AEASA conference, September 2009, Durban.
2009	Invitation to form part of the Agricultural Risk Management reference group of the NAMC.
2008	WRC workshop to develop terms of reference for a project on “Cooperative governance in food value chains in rain-fed agriculture to include emerging farmers in mainstream economy”, 12 <sup>th</sup> May 2008, Pretoria.

## 7.2. PEER REVIEW OF SCIENTIFIC ARTICLES

I have **70** peer reviews verified by Web of Science. Below is a list of journals for which I reviewed articles in **2023** and thus far in **2024**.

Journals for which I reviewed articles in **2024**:

<ul style="list-style-type: none"> <li>• <b>Q1 journals:</b> <ul style="list-style-type: none"> <li>○ Ecological Economics</li> <li>○ Environmental and Sustainability Indicators</li> <li>○ Environmental Development</li> <li>○ European Journal of Agronomy</li> <li>○ Heliyon</li> <li>○ Journal of Cleaner Production</li> <li>○ Local Development and Society</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Q2 journals:</b> <ul style="list-style-type: none"> <li>○ Agrekon</li> <li>○ Cogent</li> <li>○ Environmental Challenges</li> <li>○ Water and the environment</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• <b>Q3 journals:</b> <ul style="list-style-type: none"> <li>○</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Q4 journals:</b> <ul style="list-style-type: none"> <li>○ Cleaner Water</li> </ul> </li> </ul>

Journals for which I reviewed articles in 2023:

<ul style="list-style-type: none"> <li>• <b>Q1 journals:</b> <ul style="list-style-type: none"> <li>○ Agricultural Systems</li> <li>○ Ecological Economics</li> <li>○ Environmental and sustainability indicators</li> <li>○ Frontiers</li> <li>○ Heliyon</li> <li>○ Journal of Environmental Management</li> <li>○ Local Development and Society</li> <li>○ Science of the Total Environment</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Q2 journals:</b> <ul style="list-style-type: none"> <li>○ Agrekon</li> <li>○ Cogent Food and Agriculture</li> <li>○ Environmental Challenges</li> <li>○ SAGE</li> <li>○ South African Geographical Review</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• <b>Q3 journals:</b> <ul style="list-style-type: none"> <li>○ Rural Society</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Q4 journals:</b> <ul style="list-style-type: none"> <li>○ Cleaner Water</li> </ul> </li> </ul>

#### 7.4. EXTERNAL EXAMINATION OF THESES AND DISSERTATIONS

I have examined 34 theses and dissertations as external examiner of students from University of Pretoria, Stellenbosch University, North-West University, Rhodes University, University of KwaZulu-Natal, and University of Fort Hare.

#### 7.5. EXTERNAL MODERATION OF ACADEMIC MODULES

I have acted as external moderator of various modules in Agricultural Economics for Departments of Agricultural Economics at North-West University, Stellenbosch University, and University of KwaZulu-Natal.

#### 7.6. POPULAR SCIENTIFIC PUBLICATIONS AND PRESENTATIONS

- Lombard, W.A. and Jordaan, H. (2022). Varkproduksie in Suid Afrika: Uitdaging, groei en prestasie. *Veepplaas*, Vol 13, no.9.
- Jammer, B., Henning, J.I.F., and Jordaan, H. (2022). Entrepreneurship in agriculture: The key to greater youth involvement in rural areas. *Stockfarm* Volume 12, no.1.
- Jammer, B., Henning, J.I.F., and Jordaan, H. (2021). Entrepreneurskap in landbou: die sleutel tot groter betrokkenheid van jeug in landelike gebiede. *Veepplaas* Volume 12, no.12.
- Jordaan, H. (2019). Werk versigtig met on watervoetspoor. *Veepplaas*, 2019/03/11.
- Jordaan, H. (2016). The importance of the agri water footprint. *Farmers Weekly*, 2016/01/04.
- Jordaan, H. and Grové, B. (2013). An economic analysis of the contribution of water use to value chains in agriculture. Zanyokwe, January.

- Jordaan, H. and Grové, B. (2012). 'n Ekonomiese analise van die bydrae van watergebruik tot landbou-waardekettings. Eksteenskuil, December.
- Khaile, P.M.E., Jordaan, H., Grové, B. and Matthews, N. (2010). Faktore wat die doeltreffendheid beïnvloed waarmee Eksteenskuil rosyntjie boere hul insette gebruik. Eksteenskuil, December.
- Jordaan, H. and Grové, B. (2007). *Riskman decision support*. Vaalharts Water User Association. Vaalharts, March
- Jordaan, H. and Grové, B. (2007). *Riskman decision support*. Gamtoos Water User Association. Vaalharts, March.
- Jordaan, H. and Grové, B. (2007). *Riskman decision support*. Loskop Irrigation Board, May.
- Jordaan, H. and Grové, B. (2007). *Riskman decision support*. Lower Sundays River Water User Association, May.
- Jordaan, H. and Grové, B. (2007). *Riskman decision support*. Vaalharts Water User Association. Vaalharts, June.
- Spies, D., Jordaan, H., Grové, B., and Jooste, A. (2006). Riglyne vir vleisbemarking. *Landbouweekblad*, 2006/07/05.

## 7.7. PARTICIPATION IN WORKSHOPS

- Jordaan, H. (2014). Initiate, convene and participate in expert workshop: *Towards a method for Water Footprint Assessment in South Africa*, University of the Free State, Bloemfontein, 4 September 2014.
- Jordaan, H. and Grové, B. (2014). *An economic analysis of the contribution of water use to value chains in agriculture*. Paper presented at the MOSA status workshop, Loskop Aventura Resort, Groblersdal, 22 October 2014.
- Jordaan, H., Grové, B. and Khaile, P.M.E. (2009). *Assessment of the contribution of water use to value chains in agriculture: A conceptual framework*. Paper presented at the workshop convened by the Water Research Commission (WRC) at the 47<sup>th</sup> annual conference of the Agricultural Economics Association of South Africa (AEASA), Durban, September 2009.
- Jordaan, H., Grové, B. and Khaile, P.M.E. (2009). *Assessment of the contribution of water use to value chains in agriculture: The case of Eksteenskuil raisin producers*. Paper presented at the workshop convened by the Water Research Commission (WRC) at the 47<sup>th</sup> annual conference of the Agricultural Economics Association of South Africa (AEASA), Durban, September 2009.
- Jordaan, H., Jooste, A., Spies, D.C. and Grové, B. (2006). *Volatility in the prices of vegetables sold at South African fresh produce markets*. Paper presented at

the workshop convened by the National Agricultural Marketing Council (NAMC) at the 44<sup>th</sup> annual conference of the Agricultural Economics Association of South Africa (AEASA), Grahamstown, September 2006.

## 7.8 CONSULTATION PROJECTS

Date	Project
2024-current	Water Footprint Assessment of products produced by ZZ2 (this project will include other water related research, and research around the functioning of the fresh produce market.
2023	Agricultural Assurance Team of Kumba Iron Ore Limited to review pre-feasibility studies for agricultural projects.
2016	Rural Development Plan for the ZF Mgcawu District Municipality (contributor)
2014	Developing Business Plan for Bagaecho Farming Cooperative Limited (Small-scale pork producers) in Mangaung District Municipality
2013-2014	Mentorship for small-scale broiler producers in Mangaung District Municipality
2013	Optimising the performance of producers' organisations – training presented to members of seven smallholder farmers' cooperatives.
2011-12	Agricultural Economic Advisory Services to Eksteenskuil Agricultural Cooperative

## 8. LEADERSHIP AND ADMINISTRATION

### 8.1 SERVICE ON COMMITTEES IN UNIVERSITY OF THE FREE STATE

Date	Committee / Group
2024- current	Academic Head of Department
2024- current	Member of Senate.
2024- current	Member of Faculty Management Committee.
2022- current	Member of departmental committee tasked with the development of a BSc in Agribusiness Management degree, and re-curriculation of BSc Agricultural Economics and BAgri Agricultural Economics programmes.
2022- current	Representing the Faculty of Natural and Agricultural Sciences on the Faculty Board of the Faculty of Law at the UFS.
2022- current	Health and Safety representative of the Department of Agricultural Economics.
2022-current	GRM Coordinator, Department of Agricultural Economics, University of the Free State, Bloemfontein.
2012-2023	Post Graduate Director, Department of Agricultural Economics, University of the Free State, Bloemfontein.
2009-2010	Winter school sub-committee of UFS Wellness Committee
2009-2010	LEK forum

2008-current	Member of Faculty Board
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## 8.2 SERVICE ON INTERNATIONAL COMMITTEES

Date	Committee / Group
2024- current	Council Member of the International Farm Management Association (IFMA).
2024- current	Trustee of the Professional Development Fund of the International Farm Management Association (IFMA).

## 9. RELEVANT INTERNATIONAL EXPOSURE

### 9.1 COURSES ATTENDED

- Attended an international course, “Global Water Footprint Standard Training Course” presented by the Water Footprint Network, 13-15 May 2014, Amsterdam, The Netherlands.
- Attended an international course, “Optimising the performance of producers’ organisations” presented by the Centre for Development Innovation and Wageningen UR, 17 - 28 September 2012, Wageningen, The Netherlands.
- Participated in an E-learning course, “Water Footprint – Concept and Application”, presented by the World Bank. (February 13 – 24, 2012).
- Attended an international PhD Winter School with the theme “An institutional approach to the analysis of systems, systems change and transition in natural resources” presented by the Institute for Agricultural and Fisheries Research (ILVO) in combination with University of Ghent and Wageningen University 1 - 4 February 2010 in Belgium.
- Attended a three-day workshop on Simulation and Econometric Models for Probabilistic Forecasting and Risk Analysis presented by Professor James Richardson, College Station, Texas, US. (August 21 – 23, 2006).

### 9.2 RESEARCH VISITS

- Visited Moi University, Eldoret, Kenya about the use of extended reality in agricultural education (20-24 July 2024).
- Visited with Dr Mesfin Mekonnen from the Water Footprint Network to work on collaborative research project. Twente University, Enschede, The Netherlands (27 October 2014 – 17 November 2014).
- Visited with Dr Mesfin Mekonnen from the Water Footprint Network to work on collaborative research project. Twente University, Enschede, The Netherlands (19 – 23 May 2014).

- Visited with Professor James Richardson from Texas A&M University to obtain experience in conducting risk analysis in agriculture. College Station, Texas, US. (August 24 – September 08, 2006).

## 10. COURSES COMPLETED LOCALLY

### 10.1 TRAINING COURSES (GENERAL)

Date	Institute
2023	Engaged Leadership 2023: Igniting a culture of Agility; Capability to Lead on behalf of UFS HR: Leadership and Development.
2023	Basic Conversational Sotho, University of the Free State
2023	GRM (Graduate Research Management): Centre for Graduate Support.
2023	Basic Introduction to R: VLG Statistical Services on behalf of Centre for Graduate Support.
2023	Supervision of qualitative research: Centre for Graduate Support
2022	Ethics and integrity in scholarly publishing Webinar, Taylor and Francis Group
2022	How to get published Webinar, SAGE Journals
2010	Advanced qualitative research, Centre for Higher Education Studies and Development (CHESD)
2008	Academic Enriching Course for Lecturers, Centre for Higher Education Studies and Development (CHESD)
2005	Successfully completed the Agricultural Products Dealers Examination in terms of the rules of the JSE

### 10.2 TRAINING COURSES (IN TEACHING AND LEARNING)

Date	Institute
2024	Alternative Assessment: Centre for Teaching and Learning, (CTL).
2024	Study guide: Centre for Teaching and Learning, (CTL).
2024	Panopto video training tool: Centre for Teaching and Learning, (CTL).
2024	Learning Centred teaching: Centre for Teaching and Learning, (CTL).
2024	How to create objective questions for higher order thinking: Centre for Teaching and Learning, (CTL).
2024	Discover Feedback Fruits: Centre for Teaching and Learning, (CTL).
2024	Class Collaborate: Centre for Teaching and Learning, (CTL).
2023	Blackboard: Create your own blend: Centre for Teaching and Learning, (CTL)
2023	Continuous Assessment: Centre for Teaching and Learning, (CTL)
2023	GRM (Graduate Research Management): Centre for Graduate Support.
2023	PowerPoint: Centre for Teaching and Learning, (CTL)
2022	Curriculum Renewal Programme, Centre for Teaching and Learning, (CTL)
2022	Developing your teaching portfolio, Centre for Teaching and Learning, (CTL)
2022	BUSSE- Student Engagement Workshop, Centre for Teaching and Learning, (CTL)



## 11. AWARDS/BURSARIES/ACHIEVEMENTS

Date	Description
2023	Best Achievement in Teaching and Learning in the Department of Agricultural Economics.
2018	Academic Departmental Head's Prize for Top Performance in the Department of Agricultural Economics.
2017	Chairperson's Trophy for Service to the Department in the Department of Agricultural Economics.
2017	HA Kotze Trophy for Outreach in the Department of Agricultural Economics.
2015	HA Kotze Trophy for Outreach in the Department of Agricultural Economics.
2015	First prize for best contributed paper presented at the 54 <sup>th</sup> conference of the Agricultural Economics Association of South Africa: Lubinga, MH., Verschoor, A., Ogundeji, AA., & Jordaan, H. (2015). <i>The impact of the EU-GSP scheme on horticultural exports from Kenya, Tanzania and Uganda: A preference margin approach</i> . Paper presented at the 54th conference of the Agricultural Economics Association of South Africa: Parys, South Africa, 30 September – 2 October 2015.
2014	Second prize for best paper published in a professional journal awarded at the 53rd conference of the Agricultural Economics Association of South Africa: Eastern Cape, South Africa, 28 September – 1 October 2014.
2014	First prize for best contributed paper presented at the 2nd International Conference on Economics, Finance and Management Outlooks: Lubinga, M. H. Ogundeji, A. and Jordaan, H. (2014). <i>An econometric analysis of the impact of trade facilitation on Uganda's hot pepper exports to the European Union</i> . Paper presented at the 2nd International Conference on Economics, Finance and Management Outlooks, Kuala Lumpur, Malaysia, 20-21 December, 2014.
2013	Invited to join the Prestige Scholars Programme of the Vice Chancellor of the University of the Free State.
2012	Second prize for best contributed paper presented at the 50 <sup>th</sup> AEASA conference: Van der Merwe, E., Grové, B., Jordaan, H., and Matthews, N. (2012). Economic literacy and the socio-economic factors affecting economic literacy among small-scale raisin producers in Eksteenskuil. 50 <sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Bloemfontein, 1 – 3 October 2012.
2012	Department of Agricultural Economics award for the best PhD thesis in Agricultural Economics: Jordaan, H. (2012). <i>New Institutional Economics Analysis of emerging irrigation farmers' food value chains</i> . (Supervisor: Prof B. Grové).

2008	CS Blignaut trophy for training at the Department of Agricultural Economics, University of the Free State, 2008.
2007	Third prize for best contributed paper presented at 45 <sup>th</sup> AEASA conference: Jordaan, H. and Grové, B. (2007). <i>Factors affecting forward pricing behavior: Implications of alternative regression model specifications</i> . 45 <sup>th</sup> Annual Conference of the Agricultural Economics Association of South Africa, Johannesburg, 26–28 September 2007.
2007	AEASA award for best M.Sc. thesis in agricultural economics: Jordaan, H. (2007). <i>Forward Pricing Behaviour Of Maize Producers In Price Risk Management: The Case Of Vaalharts</i> . (Supervisor: Dr B. Grové)
2004 – 2005	University of the Free State merit bursary for academic performance
2004	ABSA Award for the best student in Agricultural Economics over the four years of undergraduate study at UFS

## **12. WORK IN PROGRESS**

- **Current Research Projects**

- Assessing the social and economic impact of changed water use behaviour in food production in South Africa. (Water Research Commission: C2022/2023-00798). (Project team member).
- Virtual water trade associated with trade in broiler meat in South Africa. (Project leader – self-funded).
- Extended Reality in agricultural education. (Project team member – self-funded).
- Water footprint assessment of Avocado's produced by ZZ2 (Project in proposal stage)

## **13. WORKING EXPERIENCE**

### **13.1 ACADEMIC DEPARTMENTAL HEAD**

- February 2024 – current  
Department of Agricultural Economics  
University of the Free State  
Bloemfontein

### **13.2 ASSOCIATE PROFESSOR**

- January 2020 – current  
Department of Agricultural Economics  
University of the Free State  
Bloemfontein

### **13.3 ACTING ACADEMIC DEPARTMENTAL HEAD**

- April 2016 – May 2018  
Department of Agricultural Economics  
University of the Free State  
Bloemfontein

### **13.4 SENIOR LECTURER**

- January 2014 – December 2019  
Department of Agricultural Economics  
University of the Free State  
Bloemfontein

### **13.5 LECTURER**

- January 2008 – December 2013  
Department of Agricultural Economics  
University of the Free State  
Bloemfontein

### **13.6 RESEARCH ASSISTANT**

- January 2005 – December 2007      Department of Agricultural Economics  
University of the Free State  
Bloemfontein

### **13.7 LECTURER REPLACEMENT**

- Contracted as a replacement lecturer in the Department of Agricultural Economics at the University of the Free State (1 August 2007 to 31 December 2007).

Courses contracted to present:

LEK124 (Data processing)

LEK602 (Production economics)

Other lecture replacement

LEK414 (Managerial Economics) (2007) – 8 weeks

LEK224 (Farm Management) (2006) – 3 weeks

LEK602 (Production Economics) (2005) – 1 week