

RÉSUMÉ

Dr TAKALANI J. MPOFU

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1. PROFILE SUMMARY

Dr. Takalani J. Mpofu, a Senior Lecturer in the Department of Animal Sciences, Tshwane University of Technology (TUT), is a Certificated Natural Scientist who holds a Ph.D. degree in Science (Animal Production – TUT) with research, teaching and management experience, good work ethic, professionalism, excellent communication and interpersonal skills. My research focus is mainly on an interdisciplinary approach to Animal Health, Animal Breeding and Genetics with a specific emphasis on studying the genetic resistance to diseases and parasites, and the development of genetic testing kits for resistance for livestock.

Date of Birth	: 22 October 1989
Identity Number	: 891022 5696 089
Nationality	: South African
Gender	: Male
Race	: African
Family Status	: Single
Driver's license	: C1/ Code 10
Languages	: English, Tshivenda, Xitsonga & Sepedi, isiZulu and Shona.

2. EDUCATION

2020	Ph.D. Science (Animal Production) Tshwane University of Technology, Gauteng, South Africa. Thesis: Gastro-intestinal parasites infection and the health status of indigenous goats in communal areas of South Africa.
2020	Erasmus+ Doctoral Student Warsaw University of Life Sciences, Warsaw, Poland Major courses: Bioinformatics, Animal Genetic Resources and their Conservation, Small Ruminants in Poland.
2016	Master of Agricultural Management (Animal Production) University of Limpopo, Sovenga, South Africa Dissertation: Production efficiency of Nguni cattle in different agro-ecological zones of Limpopo province, South Africa.
2012	Bachelor of Agricultural Management Honours (Animal Production) University of Limpopo, Sovenga, South Africa Mini dissertation: The influence of reproductive traits and pre-weaning growth rate on herd efficiency of Nguni cattle in Soekmekaar, Limpopo province.
2008	Bachelor of Agriculture (Animal Sciences) University of Venda, Thohoyandou, South Africa
2005	Matric/Grade 12 Tshikundamalema Secondary School, Masisi, South Africa

3. PROFESSIONAL HISTORY

3.1. TEACHING AND RESEARCH EXPERIENCE

2022 October – Present: Senior Lecturer

Institution: Tshwane University of Technology, Pretoria, South Africa

Initial Duties:

- Lecturing Animal Science Research, Small Stock Production, Research Methodology-Biometry and related modules for both under- and postgraduate levels.
- Conduct research and supervise Work Integrated Learning and Postgraduate students (Masters and PhD).
- Marking – Assess students' work based on published assessment criteria.
- Demonstrating – To undertake laboratory demonstration and support activities during practical sessions.
- Curriculum development for new HEQSF-aligned qualifications (Postgraduate Diploma in Animal Sciences).
- Participate in community engagement activities.
- Perform other duties as assigned.

2022 January – Present: Animal Research Ethics (AREC) Chairperson

Institution: Tshwane University of Technology, Pretoria, South Africa

Initial Duties:

- Approves and review guidelines for the care of animals that are bred, held and used for scientific or teaching purposes for the TUT.
- Assesses proposals for ethics approval.
- Reviews annual and final reports.
- Monitors the acquisition, transportation, production, housing, care, use and fate of animals involved in approved projects.
- Conducts inspections and monitors activities and records of projects approved by the AREC.
- Makes recommendations to the Senate Committee on measures needed to ensure that the standards of the Code of Practice are maintained.
- Facilitates ongoing training of AREC members.
- Reports at least annually to the Senate Committee on the AREC's activities.

2021 March – 2022 September: Lecturer

Institution: Tshwane University of Technology, Pretoria, South Africa

Initial Duties:

- Lecturing – Providing students with guidance and technical support on Small Stock Production, Anatomy and Physiology and Research Methodology-Biometry.
- Conduct research and supervise Work Integrated Learning and Postgraduate students.
- Marking – Assess students' work based on published assessment criteria.
- Demonstrating – To undertake laboratory demonstration and support activities during practical sessions.
- Feedback – Assist in the collation of assessment and other programme data/information for review by the academic team.
- Development or update of learning materials through gathering and collation of course materials.
- Participate in community engagement activities.
- Perform other duties as assigned.

2018 February – 2020 December: Postgraduate Teaching Assistant

Institution: Tshwane University of Technology, Pretoria, South Africa

Initial Duties:

- Supervision – Providing technical support to undergraduate, and experimental design and data analysis for Masters student's projects.
- Lecturing – Providing students with guidance and technical support on course materials.
- Feedback – Assist in the collation of assessment and other programme data/information for review by the academic team.
- Marking – Assess students' work based on published assessment criteria.
- Demonstrating – To undertake laboratory demonstration and support activities during practical sessions.
- Assisting academic staff with the development or update of learning materials through gathering and collation of course materials.
- Perform other duties as assigned.

2017 April – 2018 March: Intern Trainee (Animal Sciences)

Institution: DST/NRF/Tshwane University of Technology, Pretoria, South Africa

Initial Duties:

- Presentation of lectures, tutorials and practical's.
- Assist in research development, planning and design.
- Liaise with industry and other stakeholders regarding curricula, excursions, and research and community projects.
- Participate in departmental strategic planning in laboratory facilitation.
- Responsible for administrative tasks relating to the departmental learning programmes.

2014 January – 2017 March: Educator and HoD Sciences

Institution: New Generation Girls Academy, Mukula, South Africa

Initial Duties:

- Teaches skills, knowledge, and scientific attitudes through the course in Life and Natural Sciences.
- Conduct continuous assessments on theory and practical components in Life and Natural Sciences.
- Manage the Sciences subjects, including moderation, and portfolio of evidence assessment in both GET and FET levels.
- Performs other duties, from time to time be assigned by the principal.

2013 January – 2013 December: Educator

Institution: Hermain Technical High School, Thohoyandou, South Africa

Initial Duties:

- Teaching learners Agricultural & Life Sciences
- Conduct assessment on theory and practical components in Agricultural & Life Sciences.
- Direct and assist learners in practicals, methods and techniques in Agricultural & Life Sciences.
- Assists in management duties when necessary.

2012 March – 2012 December: TVET Lecturer (Agriculture)

Institution: Professional Technical College, Thohoyandou, South Africa

Initial Duties:

- Teaching learners Primary Agriculture (NCV level 1 – 4), Farm Management (N3 – N4).
- Conduct assessment on theory and practical components in Primary Agriculture (NCV level 1 – 4), Farm Management (N3 – N4).

- Direct and assist learners in practical's, methods and techniques in Primary Agriculture (NCV level 1 – 4), and Farm Management (N3 – N4).
- Assists in management duties when necessary.

3.2.INDUSTRY EXPERIENCE

2010 May – 2012 March: Livestock Manager

Company: Elimark Boedery, Soekmekaar, South Africa

Initial duties:

- Directs and coordinates livestock farm activities, such as breeding, rearing, maintenance, and transport of livestock.
- Plans and implements policies and procedures to attain profitability and ensure compliance with government regulations.
- Supervising and managing staff working on the livestock branch of the farm.
- Prepares broiler breeding or hatching schedules based on customer orders, market forecasts, and available facilities and equipments.
- Examine livestock (cattle, sheep and chicken) for diseases and advise designated personnel of action to be taken or secure veterinarian services.
- Inspects facilities and equipment to ensure compliance with sanitation standards and to determine maintenance and repair.
- Prepares farm activity reports, such as livestock production, sales, and reports.
- Interprets genetic data and decides on breeding, feeding, brooding and sanitation practices.

4. SHORT-LEARNING PROGRAMMES, SCIENTIFIC MEETINGS & WORKSHOPS

- 2022 June: Supervising the Literature Review Chapter of a Thesis–Offered by Stellenbosch University.
- 2021 September: National Dissemination of the Animal Guidelines for Use of Animals in Research and Teaching Virtual Workshop–Offered by Makerere University & University of Leeds.
- 2021 July: Publishing Scientific Literature–Offered by Worldwide Information Services.
- 2021 June: Research Animal Ethics Workshop –Offered by Makerere University & University of Leeds.
- 2020 October: Unlocking the Full Potential of Data-Driven Methodologies in Natural Science Webinar–Offered by South African Council for Natural Scientific Professions (SACNASP).
- 2020 October: Animal Health & Economics for Foot-and-mouth disease, African swine fever, Antimicrobial resistance, and highly pathogenic avian influenza–Offered Southern Society for Veterinary Epidemiology and Preventive Medicine (SASVEPM), Agricultural Research Council and United States Department of Agriculture.
- 2020: Animal Research Ethics (Intermediate level)–Offered by Scientific Veterinary Consulting.
- 2020 September: EndNote X9 Training–Offered by TUT.
- 2018: Applied Statistical Methods of Data Analyses–Offered by TUT Enterprise Holdings.
- 2018: License to Teach (Higher Education) –Offered by TUT.
- 2017: Licence to Guide–Offered by Directorate of Curriculum Development and Support, TUT.
- 2017: Animal Research Ethics–Offered by Scientific Veterinary Consulting.
- 2012: Nguni Information Course–Offered by South African Nguni Cattle Breeders Association.

5. SKILLS INVENTORY

Agricultural Education & Training

- Research and supervise project development.
- Research proposal formulation.
- Designing and presenting learning modules with multi-learning portals.

Facilitation

- Technical report writing.
- Strategic planning laboratory facilitation.
- Facilitation in high conflict potential settings.

Farming Management

- Farm planning & supervisory.
- Organizational skills.

Computer Skills

- Computer literate and copywriting.
- Logix, BeefPro and Data Analysis (Statistical Analysis Software, MiniTab, STATA & MEGA-X).

6. CURRENT RESEARCH INVOLVEMENT

Assessment of the performance of the F1 Large White and Landrace pigs in South Africa. Tshwane University of Technology, funded by the Topigs Norsvin South Africa.

Sustainable application of livestock water footprints in different production systems and regions of South Africa. Tshwane University of Technology, funded by the Water Research Commission.

Sustainability through the green economy and its impact on skills requirements, Tshwane University of Technology, funded by AGRISSETA.

Conservation strategies in South African indigenous goat genetic resources. University of Limpopo and Tshwane University of Technology, funded by the Department of Agriculture, Forestry and Fisheries.

Genetic resistance to gastro-intestinal parasites by indigenous goats in communal areas of South Africa. Tshwane University of Technology, Funded by National Research Foundation.

7. SCIENTIFIC PAPERS PUBLISHED/PRESENTED

Peer-reviewed papers published

Ngcobo, J.N., Nedambale, T.L., **Mpofu, T.J.**, Nephawe, K.A., Chokoe, T.C., Ramukhithi, F.V., 2023. Seasonal Variations in Semen Quality, Testosterone Levels, and Scrotal Size following Dietary Flaxseed Oil and Ascorbic Acid in South African Indigenous Rams. *Animals* 13, 1213. DOI: 10.3390/ani13071213

Ramukhithi, T.F., Nephawe, K.A., **Mpofu, T.J.**, Raphulu, T., Munhuweyi, K., Ramukhithi, F.V., Mtileni, B., 2023. An Assessment of Economic Sustainability and Efficiency in Small-Scale Broiler Farms in Limpopo Province: A Review. *Sustainability* 15(3), 2030. DOI: 10.3390/su15032030

Mpofu T.J., Nephawe, K.A., & Mtileni, B., 2022. Prevalence and resistance to gastrointestinal parasites in goats: A review. *Veterinary World* 15(10), 2442–2452. DOI: 10.14202/vetworld.2022.2442-2452

Mpofu, T.J., Nephawe, K.A., Ginidza, M.M., Siwendu, N.A., & Mtileni, B.J., 2022. Cow Efficiency, Relative-Birth Weight and Subsequent Pre-Weaning Growth Performance of Nguni Cattle. *American Journal of Animal and Veterinary Sciences* 2022, 17(2), 113–121. DOI: 10.3844/ajavsp.2022.113.121.

Ngcobo, J.N., Nedambale, T.L., Nephawe, K.A., **Mpofu, T.J.**, Chokoe, T.C., & Ramukhithi, F.V. An Update on South African Indigenous Sheep Breeds' Extinction Status and Difficulties during Conservation Attempts: A Review. *Diversity* 2022, 14, 516. DOI: 10.3390/d14070516

Ngcobo, J.N., Ramukhithi, F.V., Nephawe, K.A., **Mpofu, T.J.**, Chokoe, T.C., & Nedambale, T.L., 2021. Flaxseed Oil as a Source of Omega n-3 Fatty Acids to Improve Semen Quality from Livestock Animals: A Review. *Animals* 11, 3395. DOI: 10.3390/ani11123395

Idowu, P.A., Idowu, A.P., Zishiri, O.T., **Mpofu, T.J.**, Veldhuizen, E.J.A., Nephawe, K.A., & Mtileni, B., 2021 Activity of Mannose-Binding Lectin on Bacterial-Infected Chickens—A Review. *Animals* 11, 787. DOI: 10.3390/ani11030787.

Chokoe, T.C., Mdladla-Hadebe, K., Muchadeyi, F., Dzomba, E., Matelele, T., Mphahlele, T., **Mpofu, T.J.**, Nephawe, K.A., & Mtileni, B., 2020. Genetic Diversity of South African Indigenous Goat Population from four provinces using genome-wide SNP data. *Sustainability* 12, 10361. DOI: 10.3390/su12241036.

Mpofu, T.J., Nephawe, K.A., & Mtileni, B.J., 2020. Gastro-intestinal parasites infection intensity and haematological parameters of South African communal indigenous goats in relation to anemia. *Veterinary World* 13(10), 2226–2233. DOI: 10.14202/vetworld.2020.2226-2233.

Mpofu, T.J., Nephawe, K.A., Ganesan, H., & Mtileni, B., 2020. Gastro-intestinal nematodes co-infection and their interaction as drivers of host heterogeneity in the South African communal goat populations. *Advances in Animal and Veterinary Sciences* 8(9), 898–906. DOI: 10.17582/journal.aavs/2020/8.9.898.906.

Mpofu, T.J., Nephawe, K.A., & Mtileni, B.J., 2020. Correlates of resistance to gastro-intestinal parasites infection in South African communal goat populations. *American Journal of Animal and Veterinary Sciences* 15(2), 176–184. DOI: 10.3844/ajavsp.2020.176.184.

Mpofu, T.J., Nephawe, K.A., & Mtileni, B.J., 2020. Prevalence of gastro-intestinal parasites in communal goats in different agro-ecological zones of South Africa. *Veterinary World* 13(1), 26–32. DOI: 10.14202/vetworld.2020.26-32.

Chokoe, T.C., Matelele, T.C., Maqhashu, A., Ramukhithi, F.V., Mphahlele, T.D., **Mpofu, T. J.**, Nephawe, K.A. & Mtileni, B., 2020. Phenotypic Diversity of South African Indigenous Goat Population in Selected Rural Areas. *American Journal of Animal and Veterinary Sciences* 15(1), 59–66. DOI: 10.3844/ajavsp.2020.59.66.

Mamogobo M.D., Mapholi N.O., Nephawe K.A., Nedambale T.L., **Mpofu T.J.**, Sanarana Y.P., Mtileni B.J., 2020. Genetic characterisation of non-descript cattle populations in communal areas of South Africa. *Animal Production Science* 61(1), 84 – 91. DOI: 10.1071/AN20030.

Mphephya, L.C., van Rensburg, W.J., **Mpofu, T.J.**, Mtileni, B.J. & Nephawe, K.A., 2019. Influence of male-male competition on reproductive performance and mortality of broiler breeders following intra-spiking. *Poultry Science* 98(10), 4549–4554. DOI: 10.3382/ps/pez273.

Mpofu, T.J., Ginidza, M.M., Siwendu, N.A., Nephawe, K.A., & Mtileni, B.J., 2017. Effect of agro-ecological zone, season of birth and sex on pre-weaning performance of Nguni calves in Limpopo province, South Africa. *Tropical Animal Health and Production* 49, 187–194. DOI: 10.1007/s11250-016-1179-2.

Conference Proceedings

Mogano, R.R., **Mpofu, T.J.**, Mtileni, B., Hadebe, K., Chokoe, T., 2023. Landscape genomic approach to estimate the environmental suitability of village-based indigenous chickens in South African major production regions. *Proceedings of the 39th International Conference on Animal Genetics*, Cape Town, South Africa, 2 – 7 July 2023.

Mtileni, B., **Mpofu, T.J.**, Banga, C.B., Ratsaka, M.M., Ngxumeshe, A.M., Macamba, N., Scholtz, M.M., Leeuw, K-J., Grobler, M., Nephawe, K.A., 2023. The trends of water use efficiency indicators for postweaning growth performance in South African beef cattle under feedlot conditions. *Summaries of the 8th All Africa Conference on Animal Agriculture – Gaborone, Botswana*, 26 – 29 September 2023. Summaries of the Proceedings, pp. 108

Ramukhithi, T.F., Nephawe, K.A., **Mpofu, T.J.**, Raphulu, T., Sebei, P.J., Mulaudzi, M., Munhuweyi, K., Ramukhithi, F.V., Mtileni, B., 2023. Constraints facing small-scale broiler production in the Limpopo Province. *Summaries of the 8th All Africa Conference on Animal Agriculture – Gaborone, Botswana*, 26 – 29 September 2023. Summaries of the Proceedings, pp. 248.

Mamogobo, M.D., Mtileni, B.J., **Mpofu, T.J.**, Nephawe, K.A., Mapholi, N., Kwedibana, J., Banga, C.B., 2023. A genetic outlook on the ramifications brought by heat stress on cow productivity: Review. *Summaries of the 8th All Africa Conference on Animal Agriculture – Gaborone, Botswana*, 26 – 29 September 2023. Summaries of the Proceedings, pp. 214.

Mogano, R.R., **Mpofu, T.J.**, Mtileni, B., Hadebe, K., 2023. Characterization of the indigenous chicken small scale production systems in different regions KwaZulu-Natal and Gauteng Provinces of South Africa. *Summaries of the 8th All Africa Conference on Animal Agriculture – Gaborone, Botswana*, 26 – 29 September 2023. Summaries of the Proceedings, pp. 227.

Ndlovu, H., Munhuweyi, K., Ramukhithi, F.V., **Mpofu, T.J.**, Ramukhithi, T.F., Raphulu, T., Mulaudzi, M., Mtileni, B., 2023. Factors determining quality properties of broiler chicken destined for commercial purposes - A Review. *Summaries of the 8th All Africa Conference on Animal Agriculture – Gaborone, Botswana*, 26 – 29 September 2023. Summaries of the Proceedings, pp. 242.

Mtileni, B., **Mpofu, T.J.**, Banga, C.B., Ratsaka, M.M., Ngxumeshe, A.M., Macamba, N., Scholtz, M.M., Leeuw, K-J., Grobler, M., Nephawe, K.A., 2023 Water use efficiency indicators for post-weaning growth performance in three different frame sizes of South African beef cattle under intensive production system. *Summaries of the 8th All Africa Conference on Animal Agriculture – Gaborone, Botswana*, 26 – 29 September 2023. Summaries of the Proceedings, pp. 111.

Nephawe, K.A., **Mpofu, T.J.**, Banga, C.B., Ratsaka, M.M., Ngxumeshe, A.M., Macamba, N., Scholtz, M.M., Leeuw, K-J., Grobler, M., Mtileni, B., 2023 Relationship between volumetric water footprint and carcass characteristics of beef cattle under intensive production system. *Summaries of the 8th All Africa Conference on Animal Agriculture – Gaborone, Botswana*, 26 – 29 September 2023. Summaries of the Proceedings, pp. 116.

Mogano, R.R., **Mpofu, T.J.**, Mtileni, B., Hadebe, K. 2022. Modelling environmental suitability and estimating effective population size of South African indigenous chickens: Implication for conservation. *South African Society for Animal Science (SASAS) Congress 53*. Pietermaritzburg, South Africa, 26 – 28 September 2022.

Mpofu, T., Kgasago, N., Sibia, N., Mtileni, N., Bertram, F., Banga, C., Nephawe, K.A., 2021. Investigating the green economy methods and practices for sustainability and its impact on skills requirements in the agriculture and related sectors. *International Conference on Sustainable Development – Durban, South Africa*, 07 – 09 December 2021. *Book of Abstracts*, pp. 65.

Ramukhithi, T.F., Mtileni, B., Nephawe, K., **Mpofu, T.**, Raphulu, T., Ramukhithi, F.V., Sebei, J., Mulaudzi, M., 2021. Review: An assessment of economic sustainability in small scale broiler farms. *International Conference on Sustainable Development – Durban, South Africa, 07 – 09 December 2021. Book of Abstracts*, pp. 53.

Mpofu, T.J., Nephawe, K.A., & Mtileni, B.J., 2019. Gastro-intestinal parasites infestation intensity in South African communal goats. *Summaries of the 7th All Africa Conference on Animal Agriculture – Accra, Ghana, 29 July – 2 August 2019. Summaries of the Proceedings*, pp.99 – 100.

Chokoe, T.C., Matelele, T.C., Maqhashu, A., Ramukhithi, F.V., Mphahlele, T.D., **Mpofu, T.J.**, Nephawe, K.A., & Mtileni, B.J., 2019. Influence of socioeconomic factors on indigenous goat value and production constraints in selected rural areas of South Africa. *Summaries of the 7th All Africa Conference on Animal Agriculture – Accra, Ghana, 29 July – 2 August 2019. Summaries of the Proceedings*, pp. 22.

Chokoe, T.C., Matelele, T.C., Mphahlele, T.D., **Mpofu, T.J.**, Nephawe, K.A., & Mtileni, B.J., 2019. Phenotypic diversity of indigenous goat population in selected rural areas of South Africa. *Summaries of the 7th All Africa Conference on Animal Agriculture – Accra, Ghana, 29 July – 2 August 2019. Summaries of the Proceedings*, pp. 38.

Mtileni, B.J., Mulaudzi, R.G., **Mpofu, T.J.**, Belete, A., & Nephawe, K.A., & 2019. Gross margin analysis and profitability of small-scale broiler production enterprises. *Summaries of the 7th All Africa Conference on Animal Agriculture – Accra, Ghana, 29 July – 2 August 2019. Summaries of the Proceedings*, pp. 53.

Nephawe, K.A., Mphahlele, L.C., van Rensburg, W.J., **Mpofu, T.J.**, & Mtileni, B.J. 2019. Influence of male-male competition on reproductive performance and mortality of broiler breeders following intra-spiking. *Summaries of the 7th All Africa Conference on Animal Agriculture – Accra, Ghana, 29 July – 2 August 2019. Summaries of the Proceedings*, pp. 81.

Mpofu, T.J., Nephawe, K.A., & Mtileni, B.J., 2019. Effect of gastro-intestinal nematode co-infection on haematological parameters of South African communal goats. *Summaries of the 51st Congress of The South African Society for Animal Sciences 10 – 12 June 2019, University of Free State, Bloemfontein, South Africa. Summary of Poster Abstract*, pp. 114.

Mpofu, T.J., Nephawe, K.A., & Mtileni, B.J., 2019. Gastro-intestinal nematodes co-infection and their interaction as drivers of host heterogeneity in South African communal goat population. *Summaries of the 51st Congress of The South African Society for Animal Sciences 10 – 12 June 2019, University of Free State, Bloemfontein, South Africa. Summary of Poster Abstract*, pp. 115.

Peta, A.M, Nedambale, T.L., Ramukhithi, F.V., & **Mpofu, T.J.**, 2019. Correlation of semen parameters and seminal plasma constituents in relation to Bonsmara bull fertility. *Summaries of the 51st Congress of The South African Society for Animal Sciences 10 – 12 June 2019, University of Free State, Bloemfontein, South Africa. Summary of Poster Abstract*, pp. 157.

Chokoe, T.C., Matelele, T.C., Maqhashu, A., Ramukhithi, F.V., Mphahlele, T.D., **Mpofu, T.J.**, Nephawe, K.A., & Mtileni, B.J., 2019. Influence of socio-economic factors on indigenous goat value in selected rural areas of South Africa. *Summaries of the 51st Congress of The South African Society for Animal Sciences 10 – 12 June 2019, University of Free State, Bloemfontein, South Africa. Summary of Poster Abstract*, pp. 21.

Modiba, K., **Mpofu, T.J.**, Nephawe, K.A., & Mtileni, B.J., 2019. Influence of agro-ecological zones and sex on the intensity of gastro-intestinal nematodes in Pedi sheep in Limpopo province, South Africa. *Summaries of the 51st Congress of The South African Society for Animal Sciences 10 – 12*

June 2019, University of Free State, Bloemfontein, South Africa. *Summary of Poster Abstract*, pp. 109.

Ngxumeshe, M.M., Ratsaka, M.M, **Mpofo, T.J.**, Nephawe, K.A., & Mtileni, B.J., 2019. The water footprint of South African beef production: A review. *Summaries of the 51st Congress of The South African Society for Animal Sciences 10 – 12 June 2019, University of Free State, Bloemfontein, South Africa. Summary of Poster Abstract*, pp. 141.

Mpofo, T.J., Nephawe, K.A., Mapholi, T.O., & Mtileni, B.J., 2018. Gastro-intestinal parasites infestation in South African communal indigenous goats in different agro-ecological zones. *Summaries of the Faculty of Science Research Day, 07 September 2018, Tshwane University of Technology, Arcadia Campus, Pretoria, South Africa. Book of Abstracts*, pp. 14.

Mpofo, T.J., Nephawe, K.A., Ginidza, M.M., Siwendu, N.A., & Mtileni, B.J., 2017 Does cow size really matter: For efficiency? *Summaries of the Faculty of Science Research Day, 08 September 2017, Tshwane University of Technology, Arcadia Campus, Pretoria, South Africa. Book of Abstracts*, pp. 16.

Peta, A.M, Nedambale, T.L., Ramukhithi, F.V., & **Mpofo, T.J.**, 2018. Comparison of genetic material from Bonsmara bulls in two different provinces. *Summaries of the Annual Congress of The South African Genetics Society 16 – 18 October 2018, Golden Gate Highlands National Park, South Africa. Summary of Poster Abstract*, pp. 44.

Mpofo, T.J., Nephawe, K.A., Ginidza, M.M., Siwendu, N.A., & Mtileni, B.J., 2017. Does cow size really matter? Relationship between dam weight at calving, cow efficiency and pre-weaning growth performance in Nguni cattle. *Summaries of the 50th Annual Congress of The South African Society for Animal Sciences 18 – 21 September 2017, Port Elizabeth, South Africa. Summary of Poster Abstract*, pp. 90.

Mpofo, T.J., Ginidza, M.M., Siwendu, N.A., Nephawe, K.A., & Mtileni, B.J., 2016. Effect of agro-ecological zone, season of birth and sex on pre-weaning performance of Nguni calves in Limpopo Province, South Africa. *Summaries of the 6th Annual University of Limpopo Faculty of Science and Agriculture Postgraduate Research Day (FSA) 24 – 25 October 2016, Polokwane, South Africa. Summary of Research Abstract*, pp. 44.

Mpofo, T.J., Ginidza, M.M., Siwendu, N.A., Nephawe, K.A., & Mtileni, B.J., 2015. Production efficiency of Nguni cattle in different agro-ecological zones of Limpopo Province, South Africa. *Summaries of the 48th Annual Congress of the South African Society for Animal Sciences 21–23 September 2015, Empangeni, South Africa. Summary of Poster Abstract*, pp. 94.

8. STUDENT SUPERVISION

8.1. STUDENTS CURRENTLY SUPERVISING

2023: Senoamadi M.I., Genetic Resistance to Gastrointestinal Parasites in South African Indigenous Goats. Doctor of Philosophy in Science (Animal Production), Tshwane University of Technology. (Co-Supervisor).

2023: Maine, M.M., Effect of sweet potato leaf meal on growth performance, carcass traits, pork quality, and immune response of grower pigs. Master of Agricultural Sciences, Tshwane University of Technology. (Supervisor).

2022: Macamba, N., Investigating the relationship between water use efficiency indicators and carcass meat quality traits of South African beef cattle. Master of Agricultural Sciences, Tshwane University of Technology. (Co-Supervisor).

2022: Buthelezi, N.L., The effect of within-litter birth weight variation on pre-weaning mortality of piglets. Master of Agricultural Sciences, Tshwane University of Technology. (Supervisor).

2022: Maleka, R.M., Genomic relatedness and connectedness of within-breed in South African Holstein and Jersey dairy cattle breeds. Master of Agricultural Sciences, Tshwane University of Technology. (Co-Supervisor).

2022: Matukane, T.H., The effect of gilt development, insemination weight and gestation gain of first parity on total born. Master of Agricultural Sciences, Tshwane University of Technology. (Supervisor).

2022: Muruge, L.E., Effect of body weight of Laying Lohmann Brown Lite aged between 30 to 50 weeks on Prolapse incidence under different housing systems. Master of Agricultural Sciences, Tshwane University of Technology. (Supervisor).

2023: Idowu P., Molecular analysis of mannose binding lectin in South African indigenous chicken genetic resources. Doctor of Philosophy in Science (Animal Production), Tshwane University of Technology. (Co-Supervisor).

2021: Mogano, R.R., Modelling environmental suitability and estimating effective population size of South African indigenous chickens: implications for conservation. Master of Agricultural Sciences, Tshwane University of Technology. (Co-Supervisor).

2021: Masia, K.S., The effect of high temperatures during day 0 to 12 of incubation on hatchability and chick quality. Master of Agricultural Sciences, Tshwane University of Technology. (Supervisor).

8.2.STUDENTS SUPERVISED AND COMPLETED

2019: Magagula, N., Population structure of South African communal goat populations in Limpopo province. BTech, Tshwane University of Technology. (Supervisor)

2019: Mulanduli, T., The intensity of gastro-intestinal parasites on Tshandama communal goat populations. BTech, Tshwane University of Technology. (Supervisor)

2018: Sepaela, M.K., Phenotypic diversity of indigenous goat population in Vhembe and Mopani districts of Limpopo province. BTech, Tshwane University of Technology. (Supervisor)

2018: Aphane, M.O., The effect of gastro-intestinal parasites prevalence on communal goat's haematological parameters. BTech, Tshwane University of Technology. (Supervisor)

2018: Thobela, N.G., Epidemiology and prevalence of *Monezia*, *Cooperia* and *Nematodirus* spp. in goats of the semi-arid zone of Mpumalanga province. BTech, Tshwane University of Technology. (Supervisor)

2018: Mbetse, P.S., Epidemiology and prevalence of *Strongyloides*, *Cooperia* and *Trichuris* spp. in different seasons and ages of communal goats. BTech, Tshwane University of Technology. (Supervisor)

2018: Masoga, B., Epidemiology of *Coccidia*, *Trichurus* and *Monezia* spp. infections in communal goats of Mpumalanga province, South Africa. BTech, Tshwane University of Technology. (Supervisor)

2018: Mabunda, R.S., Prediction of prevalence and control gastro-intestinal nematode infestation in communal goat farmers in KwaZulu Natal province. BTech, Tshwane University of Technology. (Supervisor)

2018: Maisela, P.T., Head phenotypic variation of communal indigenous goat population in Limpopo province. BTech, Tshwane University of Technology. (Supervisor)

9. VOLUNTARY SERVICES

- 52nd Annual South African Society for Animal Science (SASAS) Congress Scientific Committee member.
- Reviewer for DHET accredited Journals (Veterinary World; Plos One; Tropical Animal Health and Production; American Journal of Animal and Veterinary Sciences; South African Journal of Animal Sciences; Pakistan Journal of Zoology).
- Attend agricultural issues received from local farmers.
- Supervise undergraduate and postgraduate students.
- Tutoring of Life Sciences and Agricultural sciences to local high school learners.

10. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- South African Council of Natural Scientific Professions (SACNASP).
- South African Society for Animal Science (SASAS).
- South African Council of Educators (SACE).

11. ACHIEVEMENTS & OTHER ACTIVITIES

- 2023: NRF Thuthuka Grant (2023 -2025): R788 000.00
- 2021: Young Researcher of the Year, Faculty of Science, Tshwane University of Technology
- 2021: DSI/NRF Innovation Postdoctoral Fellowship
- 2019/2020: Doctoral Student of the Year, Tshwane University of Technology
- 2020: NRF Scarce Skills Doctoral Scholarship Extension.
- 2020: Erasmus+ Student Exchange Scholarship (European Union).
- 2018 - 2019: NRF Scarce Skills Doctoral Scholarship.
- 2012: NRF Honours Scholarship.
- 2018: Best Scientific Oral Presentation – Faculty of Science Research Day.
- 2016: Best Life Sciences Teacher – New Generation Girls Academy.
- 2016: Best Life Sciences Teacher – Mutshindudi circuit, Limpopo province.
- 2014 – present: Member (President), Venda Independent Rural and Human Development, an NPO organisation.
- 2014 – present: Member (Executive Director), Limpopo Solution Study Programme, an NPO organisation.
- 2014 – 2016: Member, School Management Team, New Generation Girls Academy.
- 2011, 2012 – Employee of the year, Elimark Boedery.

12. REFERENCES

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