CYPRIAL NDUMISO NCOBELA

ORCID number: <https://orcid.org/0000-0002-9190-3250>

Google scholar: [scholar.google.co.za/citations?user=WHTjSmEAAAAJ&hl=en](https://scholar.google.co.za/citations?user=WHTjSmEAAAAJ&hl=en) Researchgate: <https://www.researchgate.net/profile/Ndumiso-Ncobela> ID:8909256107081

Cell: 0722536665

Email: [ndumison50@gmail.com](mailto:ndumison50@gmail.com)

# PERSONAL DETAILS

|  |  |
| --- | --- |
| Gender | Male |
| Nationality | South Africa |
| Marital Status | Single |
| Home Language | Zulu |
| Additional Language(s) | English, Xhosa, Setswana and Sepedi |
| State of Health | Excellent |
| Disability | None |
| Race | Black African |

|  |
| --- |
| **QUALIFICATIONS**   * **2022 to date:** Postgraduate Diploma in Business Management, MANCOSA (In progress) * **2015 to 2017**: PhD (Animal Science), University of KwaZulu-Natal, South Africa * **Topic: Response in growth performance, blood metabolites, nutrient digestibility, digesta and carcass characteristics of Windsnyer pigs fed increasing levels of potato hash silage** * **2013-2014**: MSc. Agriculture (Poultry Science), University of KwaZulu-Natal   + **Topic: Nutritional quality of protein-rich feed resources for scavenging chickens** * **2009-2012**: BSc. Agriculture (Animal & Poultry Science), University of KwaZulu-Natal * **2004-2008**: Matric diploma (admission to Bachelor’s Degree), Embizweni High School   **SHORT COURSES**   * **2021:** EU Feed Hygiene Rules and HACCP Auditing * **2020:** Facilitator (AgriSeta), Assessor and Moderator( Aquarius skills solution) |

**CAREER HISTORY**

* **2019 to date**: Researcher (Poultry & Pig Nutrition) & Line Manager at Agricultural Research Council
* **2018 to date**: External examiner for MSc and PhD in various universities
* **2018 to date**: Invited reviewer in Tropical Animal Health and Production
* **2018 to 2019**: Postdoctoral Research Fellowship & Assistant lecturer, University of Zululand
* **2015 to 2017**: Candidate in Professional Development Program, Agricultural Research Council- Animal Production institute.
* **2013 to 2014.** Trainee in Young professional development program of department of Agriculture, Forest and Fisheries under Zero Hunger Project

***ADHOC* DUTIES**

* **2021 to date:** Animal Ethics Committee Member at the Agricultural Research Council
* **2021 to date:** Guest lecturer at the University of Mpumalanga
* **2019-2019:** Organising committee for Teaching and Learning Conference (University of Zululand)

**PERSONAL PROFILE**

* Facilitation, assessment and moderation experience in pig & poultry production
* Innovative training and demonstrating skills
* Ability to co-ordinate projects and supervise
* Farmer consultant and student supervisor
* Personnel management experience
* Enthusiastic with scientific and technical approach in tackling problems
* Aptitude and fortitude to work under pressure and persevere to yield positive results

**RESEARCH INTEREST**

* Behavior and welfare of pigs and poultry
* Improve nutrient utilization and preservation of feedstuffs for monogastric animals
* Contribution of livestock to food security
* Indigenous knowledge system-animal science perspective
* Use of medicinal plants in pig and poultry
* Nutritional characterisation of indigenous pigs and poultry

# PEER-REVIEWED PUPLICATION(S)

* **C.N Ncobela**, A.T Kanengoni,M Chimonyo, V.A Hlatini., 2022. Responses in apparent total digestibility, rate of passage, growth performance and physicochemical properties of the digesta of Windsnyer pigs fed on increasing levels of potato hash silage. Animal Biosciences. DOI: [10.5713/ab.21.0358](https://doi.org/10.5713/ab.21.0358)
* N. Bovula, **C.N Ncobela,** C.M Pilane, T.L Nedambale and M. Chimonyo 2021. Growth performance and fertility of Windsnyer boars supplemented with α-tocopherol. Tropical Animal Health and Production. 53, 161,
* V.A Hlatini, M.Chimonyo, **C.N Ncobela** and R.S Thomas 2021. Growth performance response to reduced dietary protein level in growing Windsnyer pigs. Tropical Animal Health and Production. 53**,** 136,
* V.A Hlatini, **C.N Ncobela,** M. Chimonyo., 2020. Nitrogen balance response to the varying levels of dietary protein in slow-growing Windsnyer pigs. South African Journal of Animal Science, 50, 643-653.
* M. Khanyile, C. Mapiye, F. Thabethe, **C.N Ncobela** and M. Chimonyo, 2020. Carcass characteristics and fatty acid composition of pork from finishing pigs fed on graded levels of *Vachellia tortilis* leaf meal. Livestock science, 241, 1042592.
* B. Vilakazi, **C.N Ncobela,** N.W Kunene, Panella, F., 2020. Morphological structure of indigenous chickens using principal component analysis of body measurements. Applied Animal Husbandry & Rural Development, 13, 69- 75.
* Jobe, M. C., **Ncobela, C. N**., Kunene, N. W and Opoku, A. R., 2019. Effects of *Cassia abbreviata* extract and stocking density on growth performance, oxidative stress and liver function of indigenous chickens. Tropical Animal Health and Production, 51, 2567-2574.
* M. V Mkwanazi, **C. N Ncobela**, A. T Kanengoni and M. Chimonyo., 2019. Effects of environmental enrichment on behaviour, physiology and performance of pigs: A review. Asian Australasian Journal of Animal Science, 32, 1-13**.**
* F. Thabethe, M. Khanyile, **C.N Ncobela,** M. Chimonyo., 2019. Influence of *Vachellia tortilis* leaf meal on behavioural activities of finishing pigs. Asian Australasian Journal of Animal Science**.** DOI:10.5713/ajas.18.0884
* X.C Gudiso, V. A Hlatini, **C. N Ncobela**, M. Chimonyo and P. Mafongoya., 2019. Serum metabolites and weight of internal organs of broilers fed on varying levels of *Vachellia angustissima* leaf meal. Canadian Journal of Animal Science. 99, 475-481.
* **C.N Ncobela,** A. T Kanengoni R. S Thomas and M. Chimonyo 2018. Voluntary feed intake and growth performance of slow growing pigs fed on increasing levels of ensiled potato hash. Tropical Animal Health and Production. 50, 113-120.
* C.T Mpendulo, V.A Hlatini, **C.N Ncobela,** M. Chimonyo., 2018. Effect of fibrous diets on chemical composition and odours from pig slurry. Asian Australasian Journal of Animal Sciences. 31,1833-1839.
* **Ncobela C.N**, A.T Kanengoni and M. Chimonyo 2018. Response in nutritionally-related blood metabolites, carcass traits and primal pork cuts of slow growing Windsnyer pigs fed on varying levels potato hash silage. South African Journal of Animal Science, 48,770-778.
* V.A Hlatini, **C.N Ncobela,** T.J Zindove and M. Chimonyo., 2018. Use of polyethylene glycol to improve the utilisation of leguminous leaf meals in pigs: A review. South African Journal of Animal Science. 48, 609-620.
* **C.N Ncobela**, A. T Kanengoni, V. A Hlatini, R. S Thomas and M. Chimonyo. 2017. A review of the utility of potato by- products as a feed resource for smallholder pig production. Animal Feed Science and Technology, 227, 107-117.
* **C.N Ncobela** and M. Chimonyo., 2016. Nutritional quality and amino acid composition of diets consumed by scavenging hens and cocks across seasons. Tropical Animal Health and Production. 48, 769-77.
* **C.N Ncobela** and M. Chimonyo., 2015. Potential of non-conventional animal protein sources for sustainable intensification of scavenging chickens: A Review. Animal Feed Science and Technology, 208, 1–11.
* **C.N Ncobela** and M. Chimonyo., 2015. Farmer perceptions on the use of non-conventional animal protein sources for scavenging chickens in semi-arid environments. African Journal of Agricultural Research, 10, 3107-3115

**CHAPTERS IN BOOKS**

* + Douglas Nkosi, **Cyprial Ncobela,** Ronald Thomas, Ingrid Malebana, Francuois Muller, Sergio Alvarez, Meeske Robin, 2021**.** Microbial inoculation to high moisture by-product silage: a review In: Advanced Studies in the 21st Century Animal Nutrition. IntechOpen. DIO[:10.5772/intechopen.98912.](http://dx.doi.org/10.5772/intechopen.98912)
  + Dlomo, M. Z, **Ncobela, C. N** , & Kunene, N. W., 2022. Social Dominance in South African Indigenous Zulu Rams. In (Ed.), Animal Husbandry [Working Title].IntechOpen. <https://doi.org/10.5772/intechopen.103014>

# CONFERENCE POSTERS AND PRESENTATIONS

### Conference date: 17-21 September 2017-50th SASAS congress in Eastern Cape-Oral presentation.

* + - **C.N Ncobela**, A. T Kanengoni, M. Chimonyo. Nutrient utilisation of potato hash silage by Windsnyer pigs.
  + **Conference date: 3-6 July 2016- 49th SASAS Congress in Cape Town-Poster Presentation.**
    - **C.N. Ncobela,** M. Chimonyo I.V. Nsahlai. Interaction of season and sex of bird on the physical and nutritional composition of the crop contents of scavenging chickens, abstract no. 180

### Conference date 21-23 September 2015 - 48th SASAS Congress in Zululand– Poster Presentation

* + - **C.N Ncobela**., M. Chimonyo., I V Nsahlai and M.P Gwala. Farmer perception on use of non-traditional animal protein sources for free-range chickens, pp 62.
    - K. Mphofu, R.S. Thomas, P. Sebothoma, **C. N. Ncobela** & Kanengoni A.T. Evaluating the effects of different inclusion levels of spineless cactus on growth performance of growing Windsnyer pigs, pp 103.
    - R.S. Thomas, K. Mphofu, **C.N Ncobela**, P. Sebothoma, O.G. Makgothi & A.T. Kanengoni. A comparison of preference patterns in South African Windsnyer grower pigs fed different inclusion levels of spineless cactus based diets, pp 115.

# ACADEMIC AWARDS

* + Certificate of excellence in Animal Science (ANSI 744) - Rumen metabolism and feed formulation for Ruminants (Year: **2012**)
  + Recognition of achieving PhD, Gauteng Department of Agriculture and Rural Development (Year: **2018**)

# MEMBERSHIP AFFILIATIONS

* + Registered member of South African Council for Natural Scientific Professions

# RECEIVED RESEARCH FUNDING

* + 2019-2023: Department of Agriculture, Forest and fisheries, Poultry Scheme.
  + 2019-2023: AgriSeta funding for MSc and PhD students
  + 2019-2021: Thuthuka Research grant
  + 2015-2019. Gauteng Department of Agriculture and Rural Development research funds
  + 2018-2019. University of Zululand Postdoctoral funds
  + 2015-2017. Agricultural Research Council funds
  + 2016-2017. National Research Foundation (DAAD-German Academic Exchange Service)
  + 2013-2014. Department of Agriculture, Forestry and Fisheries, Food security Project

**RESEARCH ARTICLES REVIEWED**

**Journal Number of articles reviewed**

* Tropical Animal Health and production 10
* Advances in Animal and Veterinary Science 1

**RUNNING RESEARCH PROJECTS [AS A PRINCIPAL INVESTIGATOR]**

* Technical efficiency of smallholder poultry farmers in South Africa
* Prediction of sex using morphological structure of the fertile eggs from indigenous chickens
* Nutrient requirement of slow growing Windsnyer pigs
* Effect of adjusted phase-feeding on growth performance of broilers
* Effect of season and vegetation-type on scavenge behaviour of indigenous pigs

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Results** | **Year** | **University** |
| Masters | Pass | 2019 | University of Pretoria |
| Doctoral | Pass | 2018 | University of Pretoria |
| Masters | Pass | 2021 | University of KwaZulu Natal |
| Doctoral | Pass | 2022 | University of South Africa |

**PHD AND MSC EXAMINED**

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of students** | **Qualification** | **University** | **Role** |
| 2 | MSc | University of Zululand & University of South Africa | Co-supervisor |
| 1 | PhD | University of South Africa | Co-supervisor |
| 1 | Research training | NAZI BONI University | Mentor |

**STUDENT SUPERVISION**

**KEY PERFORMANCE AREAS AS A LINE MANAGER**

* Liaise with Supply Chain and Finance departments
* Liaise with Facilities Manager
* Liaise with Training and Technology transfer coordinator
* Engage with stakeholders for potential collaboration
* Provide leadership
* Performing *ad hoc* administrative duties
* Managing staff members
* Supervising experiential training students
* Linking farmers with potential markets
* Software feed formulating for poultry clients
* Training poultry farmers
* Advisory services and consultation for poultry farmers
* Involved in sales of poultry products
* Involved in asset verification and counting
* Comply with auditors
* Managing operational projects

**ADDITIONAL INFORMATION**

* Driver’s license code 10 (C1) and ability to drive
* Good Planning ad organisation skills
* Good administration skills
* Good problem solving skills
* Good communication, interpersonal and presentation skills

# REFERENCE

* Name Prof. Michael Chimonyo
* Position Research Professor
* Institution University of Venda
* Email [michaelchimonyo@gmail.com](mailto:michaelchimonyo@gmail.com)
* Office number 033 260 5477
* Name Prof. Nokuthula Winfred Kunene
* Position Deputy Vice-Chancellor: Research and Innovation
* Institution University of Zululand
* Email [KuneneN@unizulu.ac.za](mailto:KuneneN@unizulu.ac.za)
* Office number 035 902 6648
* Name Dr. Arnold Kanengoni
* Position Manager: Veterinary Services and Research
* Institution Johannesburg Zoo
* Email [atkanengoni@gmail.com](mailto:atkanengoni@gmail.com)
* Office number 082 580 7051