

Dr. Luthando Dziba Resume

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Managing Executive: Conservation Services
South African National Parks
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SHORT BIO

Luthando Dziba joined South African National Parks (SANParks) in July 2017 as the Managing Executive for Conservation Services which oversees Scientific Services, Veterinary Services, Conservation Planning and Cultural Heritage. Before joining SANParks, Luthando managed the Ecosystem Services research area at the Council for Scientific and Industrial Research (CSIR), leading a team of more than 50 researchers undertaking cutting edge research on Biodiversity and Ecosystem Services, Coastal Systems and Earth Observation. Luthando's research interests include interventions to improve conservation of large mammalian herbivores in protected areas; influence of plant secondary compounds on biodiversity and ecosystem dynamics; impacts of climate change, land use change, woody plant encroachment and invasive alien plants on biodiversity and ecosystem services. He also has a particular interest in science for development planning and policy. Luthando has completed an Executive Development Programme at Wits University Business School and has extensive management experience in some of South Africa's largest institutions like the Agricultural Research Council (ARC), the CSIR and SANParks. Luthando has served as the co-chair of the Africa Regional Ecosystem Assessment which was commissioned by Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) and published in 2018. He has been advisor to South Africa's delegations to IPBES plenaries, the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) and the Convention on Biological Diversity (CBD). He presented the Africa Assessment report to African Ministers of Environment at the CBD COP in Sharm el Sheik, Egypt in December 2018. Luthando serves as the Co-chair of the Multidisciplinary Expert Panel of the Intergovernmental Science Policy Platform on Biodiversity and Ecosystem Services, which is entrusted with providing advice to IPBES on scientific and technical aspects of IPBES' programme of work. He also serves on the Advisory Board of Wits University's Global Change Institute, is a member of the Board of Trustees of the Endangered Wildlife Trust and the Board of Trustees of the National Parks Trust. In the past he has served on the Research, Development and Innovation Committee of the South African National Biodiversity Institute (SANBI) Board and on the Advisory Board Nelson Mandela University's Africa Center for Ecology.

QUALIFICATIONS

1. **Executive Development Program** (EDP), Wits Business School. 2015.
Courses: Leadership and Change Management, Financial Accounting and Management, Strategic Management, Human Resources, the Business Environment
2. **PhD, Rangeland Science**, Utah State University, Logan, Utah, USA. 2004.
Dissertation: Feeding behavior of sheep in relation to kinetics of sagebrush monoterpenes: implications for landscape biodiversity.
3. **MSc Agric**, University of Fort Hare, Alice, South Africa. 2000.
Dissertation: Diet selection and foraging efficiency of Boer goats and Nguni goats in the False Thornveld of the Eastern Cape.
4. **BSc Agric**, University of Fort Hare, Alice, SA. 1998. Majored in Livestock and Pasture Science.

WORK EXPERIENCE

Position	Department, Institution	Period Employed
Managing Executive	Conservation Services Division, SANParks	Aug 2017 – present
<p>Conservation Services is a division of SANParks that comprises four business units, with a total budget of approximately \$11,200,000 including project funding and over 140 staff members. The division includes the following business units: 1) scientific services responsible for development and implementation of a conservation strategy for modern protected areas as well as setting up a research agenda to guide decision making in protected areas; 2) planning and development responsible for development, implementation and monitoring of systematic conservation including land expansion and consolidation program for South Africa's premier conservation estate; 3) veterinary wildlife services responsible for management of wildlife diseases, wildlife management including capture and translocation, treatment of injured high value species and general disease surveillance and 4) cultural heritage management responsible for the conservation and management of cultural heritage sites including world heritage sites, international reporting to UNESCO and national accounting for cultural heritage assets.</p>		
Member, Board of Trustees	The Endangered Wildlife Trust (EWT)	Dec 2020 – present
<p>The Endangered Wildlife Trust (EWT) has worked tirelessly for nearly 50 years to save wildlife and habitats, with a vision to promote a healthy planet and an equitable world that values and sustains the diversity of all life. The EWT's team of field-based specialists is spread across southern and East Africa, where committed conservation action is needed the most. Working with partners, including businesses and governments, the EWT is at the forefront of conducting applied research, supporting community conservation and livelihoods, training and building capacity, addressing human-wildlife conflict, monitoring threatened species, and establishing safe spaces for wildlife range expansion (www.ewt.org.za).</p>		
Member, Board of Trustees	National Parks Trust of South Africa	July 2017 – present
<p>The National Parks Trust of South Africa (NPTSA) enhances and expands South Africa's network of national protected areas. The NPTSA believes that healthy, sustainably managed landscapes support plants, wildlife, and the livelihoods of local communities as well as businesses that rely on them. Poor land management puts pressure on these ecosystems and, if not managed properly, land faces degradation, loss of species and natural services. At its core, the NPTSA meaningfully contributes toward protected area expansion by assisting the South African National Parks (SANParks) to grow national parks, meet conservation targets and nurture these spaces so that fauna and flora species thrive. The trust disperses in excess of R20 million per annum, mainly for land purchase for inclusion in national parks.</p>		
Honorary Research Associate	Department of Zoology, Nelson Mandela University (NMU)	Jan 2017 – present
<p>As an associate researcher, my responsibilities include research collaboration, supervision of post graduate students, publishing research in peer reviewed journals and guest lectures. As part of this appointment, I am affiliated with the African Centre for Ecology at Nelson Mandela University. I have served as a member of the Advisory Board at the African Centre for Ecology until 2017 but currently attend Advisory Board meetings by invitation due to other commitments.</p>		
Honorary Senior Lecturer	School of Biological Sciences, University of KwaZulu-Natal (UKZN)	Jun 2010 – present
<p>Adjunct staff member at the School of Biological Sciences with responsibilities that include research collaboration, supervision of post graduate students, publishing research in peer reviewed journals and guest lectures. Co-supervised Dr Tjelele's PhD theses, completed in 2015, working with Prof David Ward at the School of Biological Sciences at UKZN.</p>		

Group Manager: Strategic Human Capital Development	Human Capital Development, Council for Scientific and Industrial Research (CSIR)	Jul 2016 – July 2017
Strategic human capital development for Scientists, Engineers and Technologists (SET) across the CSIR (more than 2000 staff). Responsible for developing and implementing a strategic and focused human capital development initiative that grows the skills pool and improves the diversity and the quality of the cadre of professionals in Science, Engineering and Technology fields. The Unit managed CSIR pipeline with over 600 CSIR funded Masters and PhD students and supported professional development of CSIR scientists, engineers and technologists with a total budget of more than R120 million per annum at the time.		
Manager, Technical Support Unit	IPBES Africa Regional Assessment	Jun 2015 – July 2017
My responsibility was to oversee the implementation of the IPBES work programme in Africa, ensuring the deliverable of a credible assessment report of the state of biodiversity and ecosystem services in Africa that will be used for decision making including identifying of knowledge gaps to catalyse knowledge generation. I was invited to co-chair the Africa Assessment which was later approved by IPBES member states (https://ipbes.net/assessment-reports/africa).		
Research Manager	Ecosystem Services, CSIR	Oct 2012 – Jul 2016
My responsibilities as a Research Manager included management of three research groups working on Ecosystem Services, namely: 1) Biodiversity and Ecosystem Services, 2) Coastal Systems and 3) Earth Observation which employed more than 50 research scientists. These groups undertook cutting edge research on coupled social-ecological systems with a particular focus on sub-Saharan Africa issues such as food, energy and water security, ecosystem services, livelihoods and climate change adaptation. I managed an annual budget of more than R60 million from local and international public and private sector funding agencies and partners. The team contributed 40% of the unit's research outputs and trained many MSc and PhD students		
Principal Researcher	Biodiversity & Ecosystem Services, CSIR	Feb 2011 – Oct 2012
My research interests included plant-herbivore ecology; land use and land cover change; impacts of bush encroachment and invasive alien plants on biodiversity and ecosystem services as well as mainstreaming ecosystem services into planning and policy. Supervised a few Masters and PhD students in several of these domains.		
Senior Researcher	Biodiversity & Ecosystem Services, CSIR	Aug 2010 – Jan 2011
Undertake research on biodiversity and ecosystem services, including managing the UNEP/GEF funded project, named Project on Ecosystem Services (ProEcoServ), which piloted mainstreaming of biodiversity into planning and policy in Chile, South Africa, Trinidad and Tobago and Vietnam between 2010 and 2014.		
Senior Manager	Rangelands and Nutrition, ARC	Jul 2009 – Jul 2010
Responsible for management a team that included Rangeland Scientists, Pasture Scientists, Animal Nutritionists and two research farms (Roodeplaat Research Farm and Cedara Forage Research Section).		
Program Manager	Rangelands and Nutrition, ARC	Jan 2009 – Jan 2010
Responsible for managing a team of scientists across South Africa undertaking research on Rangeland and Pasture Management at the ARC Animal Production Institute.		
Senior Researcher	Rangelands and Nutrition, ARC	Jul 2005 – Dec 2008
Responsible for undertaking research on the ecology and management of rangelands. I also managed the ARC led and South African Department of Agriculture funded project on Rangeland Monitoring which employed 18 interns and a senior program manager to collect data on the status of rangelands in various sites across South Africa.		
Post-doctoral Fellow	Department of Wildland Resources, USU	Jan 2005 – Jun 2005
Served a short post-doctoral fellowship in a USDA-IFAFS funded project to Professor Fred Provenza, my former PhD supervisor, before returning to South Africa to complete key deliverables and report to conclude this 4-year project.		

SCIENTIFIC PUBLICATIONS

a) Journal Articles

1. Roux DJ, Novellie P, Smit IPJ, de Krakerd J, Mc Culloch S, Dziba L, Freitag S, Pienaar DJ. 2022. Appraising strategic adaptive management as a process of organizational learning. *Journal of Environmental Management*. 2022 Jan 1;301:113920. doi: 10.1016/j.jenvman.2021.113920.
2. Ferreira SM, Dziba L. 2022. Rhinoceros accounting in Kruger National Park, South Africa. *Journal for Nature Conservation*. In Review
3. Kauffman et al. 2021. 2021. Mapping out a future for ungulate migrations. *Science* 372: 566-569
4. Ferreira SM, Dziba L. 2021. Where are rhinos safest? *South African Journal of Science*. 117(9/10), Art. #11300. <https://doi.org/10.17159/sajs.2021/11300>
5. Ferreira SM, Greaver C, Simms C, Dziba L. 2021. The Impact of COVID-19: Government Responses on Rhinoceroses in Kruger National Park. *African Journal of Wildlife Research*. DOI: 10.3957/056.051.0100
6. Smith KM, KM, Smit IPJ, Swemmer LK, Mokhatla MM, Freitag S, Roux DJ, Dziba L. 2021. Sustainability of Protected Areas: Vulnerabilities and opportunities as revealed by COVID-19 in a National Park Management agency. *Biological Conservation* Volume 255: 108985
7. Fischer M, E Archer, L Dziba, M Karki, KJ Mulongoy, J Rice, M Rounsevell, SS Sellamuttu, C Simão Seixas, AT Rando, B Watson, ME Zaccagnini. 2021. In review. Trends in nature-people relations and options for decision-making across four world regions. *Science Advances*.
8. Archer, E., Dziba, L.E., Mulongoy, K.J., Maoela, M.A., Walters, M., Biggs, R., Salem, M.-C.C., DeClerck, F., Diaw, M.C., Dunham, A.E., Failler, P., Gordon, C., Harhash, K.A., Kasisi, R., Kizito, F., Nyingi, W.D., Oguge, N., Osman-Elasha, B., Stringer, L.C., Tito de Morais, L., Assogbadjo, A., Egoh, B.N., Halmy, M.W., Heubach, K., Mensah, A., Pereira, L., Sitas, N. 2020. Biodiversity and ecosystem services on the African continent – What is changing, and what are our options? *Environmental Development* doi: <https://doi.org/10.1016/j.envdev.2020.100558>.
9. Wernecke, B., Millar, D.A., Walters, M., Ganswindt, A., Dziba, L. and Wright, C.Y., 2020. 'Preventing the next pandemic'-A 2020 UNEP Frontiers Series Report on zoonotic diseases with reflections for South Africa. *South African Journal of Science*, 116(7-8), pp.1-4.
10. Mkhize, NR; Heitkoenig, IMA; Scogings, PF, Hattas, D, Dziba LE, Prins HHT, de Boer WF. 2018. Seasonal regulation of condensed tannin consumption by free-ranging goats in a semi-arid savanna. *PLoS ONE*: <https://doi.org/10.1371/journal.pone.0189626>.
11. Yapi TS, O'Farrell PJ, Dziba LE and Esler K. 2018. Alien tree invasion into a South African montane grassland ecosystem: impact of Acacia species on rangeland condition and livestock carrying capacity. *International Journal of Biodiversity Science, Ecosystem Services & Management* 14: 105–116.
12. Mkhize N.R., Heitkönig I.M.A., Scogings P.F., Dziba L.E., Prins H.H.T., de Boer W.F. 2018. Effects of condensed tannins on live weight, faecal nitrogen and blood metabolites of free-ranging female goats in a semi-arid African savanna. *Small Ruminant Research* 166: 28–34.
13. Cho MA, Ramoelo A, and Dziba LE. 2017. Response of Land Surface Phenology to Variation in Tree Cover during Green-Up and Senescence Periods in the Semi-Arid Savanna of Southern Africa. *Remote Sensing* 9, 689; doi:10.3390/rs9070689
14. Balvanera, P. Pascual U., Dias S. Dziba L, Prieur Richard A. & Subramanian S. 2017. Urgent need to strengthen the international commitment to IPBES. *Nature Ecology and Evolution* 1, 0197 (2017). DOI: 10.1038/s41559-017-0197. www.nature.com/natecolevol

15. Mkhize, NR; Heitkoenig, IMA; Scogings, PF, Hattas, D, Dziba LE, Prins HHT, de Boer WF. 2016. Supplemental nutrients increase the consumption of chemically defended shrubs by free-ranging herbivores. *Agriculture, Ecosystems and Environment* 235: 119 –126
16. Fomum, SW.; Scogings, PF.; Dziba LE; Nsahlai IV. 2015. Seasonal variations in diet selection of Nguni goats: effects of physical and chemical traits of browse. *African Journal of Range & Forage Science* 32: 193-201
17. Mkhize, NR; Heitkoenig, IMA; Scogings, PF, Dziba LE, Prins HHT, de Boer WF. 2015. Condensed tannins reduce browsing and increase grazing time of free-ranging goats in semi-arid savannas. *Applied Animal Behaviour Science* 169: 33-37
18. Scogings, Peter F.; Hattas, Dawood; Skarpe, Christina; Dziba LE, Zobolo A, Rooke T. 2015. Seasonal variations in nutrients and secondary metabolites in semi-arid savannas depend on year and species. *Journal of Arid Environments* 114: 54-61
19. Tjelele, T. J.; Ward, D.; Dziba L.E. 2015. The effects of passage through the gut of goats and cattle, and the application of dung as a fertiliser on seedling establishment of *Dichrostachys cinerea* and *Acacia nilotica*. *Rangeland Journal* 37: 147-156
20. Tjelele, TJ; Ward, D; Dziba LE. 2015. The Effects of Seed Ingestion by Livestock, Dung Fertilization, Trampling, Grass Competition and Fire on Seedling Establishment of Two Woody Plant Species. *PLOS ONE* 10 (available online)
21. Tjelele, T.J.; Ward, D., Dziba LE. 2015. The effects of passage through the gut of goats and cattle, and the application of dung as a fertiliser on seedling establishment of *Dichrostachys cinerea* and *Acacia nilotica*. *Rangeland Journal* 37: 147-156
- Scogings, PF.; Hjalten, J; Skarpe, C; Hattas D, Zobolo A, Dziba LE, Rooke T. 2014. Nutrient and secondary metabolite concentrations in a savanna are independently affected by large herbivores and shoot growth rate. *Plant Ecology* 215: 73-82
22. Tjelele, TJ; Ward D; Dziba LE. 2014. Diet Quality Modifies Germination of *Dichrostachys cinerea* and *Acacia nilotica* Seeds Fed to Ruminants. *Rangeland Ecology & Management* 67: 423-428
23. Mkhize, NR.; Scogings, PF.; Nsahlai, IV., Dziba LE. 2014. Diet selection of goats depends on season: roles of plant physical and chemical traits. *African Journal of Range & Forage Science* 31: 209-214
24. Tjelele T.J., Dziba L.E. and Pule H.T. 2012. Germination potential of *Dichrostachys cinerea* seeds fed to goats (*Capra hircus*). *Rangeland Ecology and Management* 65: 105-108.
25. Basha N.A.D., Scogings P.F., Dziba L.E. and Nsahlai I.V. 2012. Diet selection of Nguni goats in relation to season, chemistry and physical properties of browse in sub-humid subtropical savanna. *Small Ruminant Research* 102:163-171.
26. Mkhize NR, Scogings PF, Dziba LE, Nsahlai IV. 2011. Seasonal variations in chemical and physical traits of six plant species influence foraging efficiency of goats in pens. *African Journal of Range & Forage Science* 28:29-34.
27. Dziba L.E., Provenza F.D., J.O. Hall. 2009. Responses of lambs to camphor highlight opportunities for management of savannas. *Options Méditerranéennes* 85:191-196.
28. Papachristou T.G, Dziba L.E., Villalba J.J. and Provenza F.D. 2009. Intake patterns of sheep offered nutritious alternatives associated with plant secondary compounds. *Options Méditerranéennes* 85:25-29.
29. Dziba L.E. and Provenza F.D. 2008. Dietary monoterpene concentrations influence feeding patterns of lambs. *Applied Animal Behavior Science* 109: 49–57.
30. Manteca X., Provenza F.D., J.J. Villalba, S.B. Atwood, L.E. Dziba. 2008. Is diet choice important to animal welfare? *The Journal of Veterinary Behaviour* 3: 229-239.
31. Dziba L.E., Provenza F.D., J.J. Villalba and S.B. Atwood. 2007. Influence of terpenes and nutritional supplementation on intake of sagebrush by sheep. *Small Ruminant Research* 69: 203-207.
32. Papachristou T.G, Dziba L.E., Villalba J.J. and Provenza F.D. 2007. Patterns of diet mixing by sheep offered foods varying in nutrients and plant secondary compounds. *Applied Animal Behavior Science* 108: 68–80.

33. Dziba L.E., J.O. Hall and Provenza F.D. 2006. Feeding behavior of lambs in relation to kinetics of 1,8-cineole dosed intravenously and into the rumen. *Journal of Chemical Ecology* 32:391-408.
34. Papachristou T.G, Dziba L.E. and Provenza F.D. 2005. Foraging ecology and nutrition of small ruminants. *Small Ruminant Research* 59: 141-156.
35. Kimball B.A., L.E. Dziba, J.J. Johnson and F.D. Provenza. 2004. Chromatographic analysis of sagebrush monoterpenes in blood plasma. *Journal of Chromatographic Science* 42: 245-249.
36. Scogings P., L.E. Dziba and I. Gordon. 2004. Leaf chemistry of woody plants in relation to season, canopy retention and goat browsing in a semiarid subtropical savanna. *Austral Ecology* 29: 278-286.
37. Dziba L.E., P.F. Scogings, I.J. Gordon and J.G. Raats. 2003. The feeding height preferences of 2 goat breeds fed *Grewia Occidentalis* L. (tiliaccae) in the Eastern Cape, South Africa. *Small Ruminant Research* 47: 31-38.
38. Dziba L.E., P.F. Scogings, I.J. Gordon and J.G. Raats. 2003. Effects of plant species, season and breed on intake rates and diet selection by goats in the False Thornveld of the Eastern Cape, South Africa. *Small Ruminant Research* 47: 17-30.
39. Provenza F.D., J.J. Villalba, L.E. Dziba, S.B. Atwood, R.E. Banner. 2003. Linking herbivore experience, varied diets, and plant biochemical diversity. *Small Ruminant Research* 49: 257-274.

b) Books/Book Chapters/Technical Reports

1. Dziba L, A Ramoelo, C Ryan, S Harrison, R Pritchard, H Tripathi, N Sitas, O Selomane, F Engelbrecht, L Pereira, Y Katerere, P Chirwa, N Ribeiro, I Grundy. 2020. Chapter 6: Scenarios for Just and Sustainable Futures in the Miombo Woodlands. In: Ribeiro N, Y Katerere, P Chirwa, I Grundy (eds) *Miombo Woodlands in a Changing Environment: Securing the Resilience and Sustainability of People and Woodlands*. Springer, Berlin, Germany.
2. IPBES. 2018. The IPBES regional assessment report on biodiversity and ecosystem services for Africa. Archer, E. Dziba, L., Mulongoy, K. J., Maoela, M. A., and Walters, M. (eds.). Publisher: Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany
3. Nyingi, W., Oguge, N., Dziba, L., Chandipo, R., Didier, T. A., Gandiwa, E., Kasiki, S., Kisanga, D., Kgosikoma, O., Osano, O., Tassin, J., Sanogo, S., von Maltitz, G., Ghazi, H., Archibald, S., Gambiza, J., Ivey, P., Logo, P. B., Maoela, M. A., Ndarana, T., Ogada, M., Olago, D., Rahlao, S., and van Wilgen, B. Chapter 4: Direct and indirect drivers of change in biodiversity and nature's contributions to people. In IPBES (2018): *The IPBES regional assessment report on biodiversity and ecosystem services for Africa*. Archer, E., Dziba, L., Mulongoy, K. J., Maoela, M. A., and Walters, M. (eds.). Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany, pp. 207–296.
4. Hardy M, Dziba L.E., Kilian W., and Tolmay J. 2011. Rainfed Farming Systems in South Africa. In: Tow, P.G., Cooper, I.M., Partridge, I, and Birch C.J. (Editors) "Rainfed Farming Systems" Springer, Dordrecht Netherlands.

c) Selected Conference Proceedings

1. Dziba, L., Mulongoy, K. J., Archer, E. 2018. Summary for Policy Makers of the Assessment Report on Biodiversity and Ecosystem Services for Africa. Africa Biodiversity Summit and African Ministers of Environment High Level Segment of the Convention on Biological Diversity COP, Sharm El Sheik, Egypt, 13 November 2018. *Invited Keynote Address*.
2. Dziba, L., Archer, E., Mulongoy, K. J. 2018. Key findings of the Assessment Report on Biodiversity and Ecosystem Services for Africa. The Rio Pavilion the Convention on Biological Diversity COP, Sharm El Sheik, Egypt, 18 November 2018. *Invited Keynote Address*.
3. Dziba, L., Archer, E., Mulongoy, K. J. Regional Assessment Report on Biodiversity and Ecosystem Services: Africa. Convention on Biological Diversity, Subsidiary Body on Scientific, Technical and Technological Advice, Montreal, Canada, 30 June 2018. *Invited Keynote Address*.

4. Dziba L. 2016. Knowledge, information and data needs for the Africa Regional Assessment. Biodiversity Information Management and Foundational Biodiversity Information Programme FORUM. Kisternbosch, 12-14 May 2016. *Invited Keynote Address*.
5. Dziba L. 2015. Land use change and land clearing in South Africa. Workshop - Tropical Savannas in the Anthropocene. Edinburgh Centre for Carbon Innovation, University of Edinburgh, Edinburgh, UK, 17 – 20 September, 2015.
6. Dziba L. 2015. IPBES Assessments: the Africa Regional Assessment and role of the technical support unit. National Biodiversity Forum. Salt Rock Resort, 25 June 2015. *Invited Keynote Address*.
7. Dziba L. 2015. IPBES Assessments : the Africa Regional Assessment. Learning Exchange Programme on National Biodiversity Assessments. GBIF Africa/Africa Rising Workshop. Kisternbosch, 29 May 2015. *Invited Keynote Address*.
8. Cumming T., B Reyers, L Dziba, K Maze, J Nel, P O'Farrell, N Sitas, I Kotze. 2012. The value of biodiversity and ecosystem services in South Africa: adapting to climate change the natural way. TEEB Conference, Leipzig, Germany.
9. Pule H G, Truter W F and Dziba L E 2011. Seasonal flowering phenology amongst common plant species in *Dichapetalum cymosum* (gifblaar) communities. 46th Annual Congress of the Grassland Society of Southern Africa. Middelburg Eastern Cape.
10. Mkhize NR, de Boer FW, Heitkonig IMA, Scogings PF, Dziba LE, Prins HHT. 2011. Biochemical Links between plants and large herbivores: Consequences for browse utilization and animal productivity (a proposal). Proceedings of the 46th Annual Congress of the Grassland Society of Southern Africa. Middelburg, Eastern Cape province of South Africa.
11. Dziba L.E. 2011. Ecosystem based adaptation to climate change: applications to South Africa's Rangelands. COP17, Durban, South Africa.
12. Tjelele TJ, Ward MD, Dziba LE. 2010. The effect of diet, goats and seed characteristics on seed recovery of *Dichrostachys cinerea* and *Acacia nilotica* seeds. Annual Congress of Grassland Society of Southern Africa. Kimberly, South Africa.
13. Pule H G, Truter W F and Dziba L E 2010. Ecological niche separation of *Dichapetalum cymosum* (gifblaar) on South African rangeland communities. Proceedings of the All Africa Conference on Animal Agriculture. Ethiopia.
14. Pule H G, Truter W F and Dziba L E 2010. Ecological niche separation of *Dichapetalum cymosum* (gifblaar) on South African rangeland communities. 45th Annual Congress of the Grassland of Southern Africa. Kimberley, Northern Cape.
15. Dziba L.E. 2009. Can rangelands be managed concurrently for livestock and improved water production? Biennial Landcare Conference. Polokwane, South Africa.
16. Dziba L.E. 2008. Managing rangelands for water – the ultimate breakthrough? Annual Congress of the Grassland Society of Southern Africa. Badplaas, South Africa.
17. Scogings PF, T Rooke, L.E Dziba, D Hattas, H.C Eckhardt, C Skarpe, A Zobolo and J Hjältén. 2008. Responses of trees to herbivory at the Nkulu exclosures, Kruger Park. Annual Congress of the Grassland Society of Southern Africa. Badplaas, South Africa.
18. Mkhize N.R., Scogings P.F., Dziba L.E. and Nsahlai I.V. 2008. Short-term intake rates and diet selection of browsers in a sub- humid subtropical savanna. Annual Congress of the Grassland Society of Southern Africa. Badplaas, South Africa.
19. Peel M.J.S., Dziba L.E., Peel J.M.H., Jacobs A.F., Rabothata C. and Keromecwe O. 2008. The National Rangeland Monitoring Programme: Progress in the Lowveld protected areas? Annual Congress of the Grassland Society of Southern Africa. Badplaas, South Africa.
20. Tjelele J.T., Dziba L.E. and Pule H.T. 2008. Germination potential of dispersed seeds of *Dichrostachys cinerea* by goats (*Capra hircus*). Annual Congress of the Grassland Society of Southern Africa. Badplaas, South Africa.

21. Dziba L.E., Provenza F.D., Hall, J.O. 2007. Responses of lambs to camphor highlight opportunities for management of savannas. 12th FAO-CIHEAM Seminar on Sheep and Goat Nutrition, Thessaloniki, Greece.
22. Scogings, P.F, Rooke, T., Dziba, L.E., Hattas, D., Eckhardt, H., Skarpe, C., Zobolo, A. & Hjältén, J. 2007. Variations in N, fibre and phenols of trees in relation to resources and browsing at the Nkuhlu Exclosures, Kruger National Park: 2005/2006. Kruger National Park Annual Network Meeting, Skukuza, South Africa.
23. Dziba L.E. 2006. Challenges for application of animal behavior principles to management of South African Rangelands. BEHAVE International Symposium. Midway, Utah, USA.
24. Dziba L.E. 2006. Development of a National Rangeland Monitoring Programme for South Africa. Annual Congress of the Grassland Society of Southern Africa. Bela Bela, South Africa.
25. Scogings PF, T Rooke, L E Dziba, D Hattas, H C Eckhardt, C Skarpe, A Zobolo and J Hjältén. 2006. Plant defences among selected woody species in an Acacia-Combretum savanna: A Conceptual Framework. Annual Congress of the Grassland Society of Southern Africa. Bela Bela, South Africa.
26. Papachristou, T.G., L.E. Dziba, J.J. Villalba and F.D. Provenza, 2005. Intake patterns of sheep offered nutritious alternatives associated with plant secondary compounds. //z. Advanced Nutrition and Feeding Strategies to improve Sheep and Goat production. 11th Seminar of the FAO-CIHEAM Sub-Network on Sheep and Goat Nutrition, University of Catania, Catania, Italy.
27. Dziba L.E. 2005. Kinetics of plant secondary compounds: influences on feeding behavior of herbivores and diversity of rangelands. Annual Congress of the Grassland Society of Southern Africa. Port Shepstone, South Africa.
28. Dziba L.E., F.D. Provenza, J.O. Hall and J.J. Villalba. 2005. Kinetics of sagebrush monoterpenes influence feeding behavior of sheep. Proceedings of the VII International Symposium on Poisonous Plants. Logan, UT, USA.
29. Dziba L.E., F.D. Provenza and J.O. Hall. 2004. Elimination rates of sagebrush monoterpenes influence feeding behavior of lambs. Annual Meeting of the Society for Range Management, Salt Lake City, Utah, USA.
30. Dziba L.E., F.D. Provenza, J.J. Villalba and S.B. Atwood. 2003. Influence of macronutrients on intake of sagebrush by sheep: consequences for rangeland diversity. Proceedings of the VII International Rangelands Congress, Durban, South Africa. African J. Range and Forage Sci. Vol. 22: 83.
31. Scogings P.F., L.E. Dziba and I.J. Gordon. 2003. Forage quality of savanna browse in relation to intake rates of goats in the False Thornveld of the Eastern Cape, South Africa. Proc VII International Rangelands Congress, Durban, South Africa. African J. Range and Forage Sci. Vol. 22: 143.
32. Dziba L.E. and F.D. Provenza. 2002. Effects of terpene concentrations on food intake by sheep. Annual Meeting of the Society for Range Management, Kansas City, Missouri, USA.
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BOARDS/SERVICE/PROJECTS

a) Other Advisory Boards / Boards

1. **Advisory Board Member**, Global Change and Sustainability Research Institute, Wits University, March 2018 – current
2. **Independent Board Member**, Research, Development and Innovation Committee, SANBI Board, Appointed September 2015 – 2021

3. **Advisory Board Member**, Faculty of Science, Stellenbosch University, March 2016 – March 2018
4. **Advisory Board Member**, Centre for African Conservation Ecology, Nelson Mandela Metropolitan University, Appointed March 2009 – March 2017

b) Selected International Science Committees

1. **Co-Chair: Multidisciplinary Expert Panel (MEP)**. United Nations Intergovernmental Science Policy Platform on Biodiversity and Ecosystem Services (IPBES). The MEP provides advice to the governments who are IPBES member states on scientific and technical aspects of IPBES' programme of work. Appointed for a three-year term effective April 2018 – April 2021.
2. **Co-Chair: IPBES Regional Assessment for Africa**. Co-led a team of 120 experts who wrote the IPBES Africa Regional Assessment on Biodiversity and Ecosystem Services, producing a Summary for Policy Makers and a final report of the Africa Regional Assessment.
3. **Expert and Coordinating Lead Author in Chapter 4**. Coordinated a team of approximately 20 experts writing the chapter on Drivers of Biodiversity and Ecosystem Service Change in the IPBES Regional Assessment for Africa.
4. **Member: IPBES Task Force on Knowledge and Data**. The task force helped IPBES to identify and prioritize knowledge and data needs, and potential gaps; advise IPBES plenary on how to address identified gaps in knowledge and data, consider the use of indicators and metrics, data and information management, and develop an overall knowledge and data strategy. Appointed March 2014 to March 2018.
5. **Expert**, Advisory Committee on Agricultural Resilience in Nigeria to the Nigerian Minister of Agriculture, served from September 2013 - December 2013
6. **Co-chair**: Technical Advisory Group of UNEP international project titled “Strengthening biodiversity conservation at a landscape and seascape scale - towards a global connectivity conservation strategy.” Appointed September 2015 - 2017
7. **Working Group Member**: Technical Working Group 6 on Operation Phakisa Oceans Economy on Marine Spatial Planning. Members of the Working group including experts from the CSIR who are managing the Oceans and Coasts Information Management System, representations of relevant departments (e.g. DEA Oceans and Coasts, DST,) and sectors (SAMSA, SA Navy etc).
8. **Working Group Chair**: Working Group on Administrative and Institutional Arrangements for the Secretariat of Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) at its first plenary in Bonn, Germany in January 2013.
9. **Working Group Chair**: Working Group on the Data and Information Management Plan at the 3rd plenary in Bonn in January 2015.

10. **Expert Advisor:** Support to South African Head of Delegation at various IPBES negotiations in Panama City, Panama in April 2012, Bonn, Germany in January 2013, Antalya, Turkey in Dec 2013, Bonn, Germany in January 2015, and Kuala Lumpur, Malaysia in March 2016.
11. **Expert:** South African delegation of experts to the “Dialogue between Europe and its Southern partners on Agricultural Research and Climate Change” held in Brussels, 16-17 Dec 2009.
12. **Expert:** South African delegation of experts to a workshop on Regional Science Service Center for Climate Change Research (SASSCAL) held in Lusaka, Zambia in Feb 2011 and in Windhoek, Namibia in September 2011.
13. **Theme leader:** Ecosystem Services and Livelihoods Theme in the Applied Center for Climate and Earth Systems Science (ACCESS) (2011 to 2016).
14. **Deputy Chair:** Deputy Chair of the South African Land Cover Change Research Consortium. This is a research consortium of leading experts from various South African institutions that undertake research and development on pertinent land use and land cover issues, appointed from 2010 - 2016

c) Selected Research Projects Managed

1. **Sub-Global Assessment Network workshops.** I have organized at least two regional workshops on conducting ecosystem assessments. The workshops trained at least 60 participants in the SADC region in preparation for IPBES assessments. These were done in collaboration with UNEP-World Conservation Monitoring Centre, Cambridge, UK.
2. **Project on Ecosystem Services (ProEcoServ).** I was the project co-leader on UNEP/GEF funded project, which piloted mainstreaming ecosystem services into development planning and **policy** in South Africa, Chile, Trinidad and Tobago and Vietnam. The project was funded for four years (2010-2015, one non-funded extension included).
3. **Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL)** is a joint initiative of Angola, Botswana, Namibia, South Africa, Zambia, and Germany, responding to the challenges of global change in the SADC region. I am the Theme Leader for the Agriculture and Biodiversity themes in the South African component of the project, leading various projects at multiple institutions funded over four years (2015-2019).
4. **Intergovernmental Science Policy Platform on Biodiversity and Ecosystem Services (IPBES) Technical Support Unit (TSU).** The TSU was part of the IPBES Secretariat and I was responsible (together with a team of 6 staff members) for the ensuring the successful implementation of the IPBES work programme, especially the Africa Regional Assessment. The TSU was funded for three years from 2015 to 2018.

POST GRADUATE STUDENTS co-supervised

Student	Degree	University	Date of Completion	Other supervisors
Thozamile Yapi	PhD	Rhodes University	2022 (expected)	Prof C Shackleton, Dr D Le Maitre
Greg Schreiner	PhD	University of Witwatersrand	2022 (expected)	Prof R Scholes (late)
Julius Tjelele	PhD	University of KwaZulu-Natal	2015 (completed)	Prof D Ward
Ntuthuko Mkhize	PhD	University of Wageningen	2015 (completed)	Prof P Scogings, Prof H Prins, I Heitkönig, F. de Boer
Basanda Nondlazi	MSc	University of Witwatersrand	2016 (completed)	Prof S Arcibald
Hosia Pule	MSc	University of Pretoria	2014 (completed)	Prof W Truter
Thozamile Yapi	MSc	University of Stellenbosch	2013 (completed)	Prof K Esler, Dr P O'Farrell
Sicelo Dlodla	MSc	University of Zululand	2011 (completed)	Prof P Scogings
