

Curriculum Vitae

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PERSONAL BACKGROUND

Born and raised in rural Zimbabwe, naturalized US citizen.

UNIVERSITY QUALIFICATIONS

1988: PhD in animal ecology, University of the Witwatersrand, Johannesburg, South Africa.

1983: BSc Hons in zoology (1st class), University of Cape Town, South Africa.

1982: BSc (distinction in zoology) University of Cape Town, South Africa.

ACADEMIC POSITIONS

Since 2005: Professor, Department of Wildland Resources, Utah State University, USA.

1999-2005: Professor (Austin Roberts Chair of Mammalogy), Department of Zoology & Entomology, University of Pretoria, South Africa.

1990-1998: Lecturer then Senior Lecturer in Animal Ecology, Department of Biological Sciences, University of Zimbabwe.

1989-1990: Associate Faculty, School for Field Studies, Beverly, Massachusetts, USA.

1988-1989: Postdoctoral Research Fellow, Department of Range Science, Utah State University, USA.

ADMINISTRATIVE & LEADERSHIP POSITIONS

2005-2012: Head, Department of Wildland Resources, Utah State University, USA.

2006-2012: Co-Director, Berryman Institute, Utah State University and Mississippi State University, USA.

1999-2005: Director, Mammal Research Institute, University of Pretoria, South Africa.

1994-2004: Scientific Advisor, Norwegian Institute for Nature Research (NINA), Trondheim, Norway (20% contract).

1992-1998: Coordinator, Tropical Resource Ecology Program, Department of Biological Sciences and Centre for Applied Social Sciences, University of Zimbabwe.

VISITING POSITIONS

2013: Visiting Researcher, Department of Ecology and Natural Resource Management, Norwegian University of Life Sciences (NMBU), Ås, Norway (5 months).

2012: Visiting Researcher, Center for Ecological & Evolutionary Studies, University of Groningen, Netherlands (5 months).

Since 2007: Extra-ordinary Professor, Department of Zoology & Entomology, University of Pretoria, South Africa (adjunct appointment).

1993: Visiting Scholar, Department of Zoology (Large Animal Research Group), Cambridge University, UK (2 months).

HONORS

- 2017: E.J. Dyksterhuis Distinguished Lecture Award, Texas A&M University.
2013: Visiting Researcher Award, Norwegian University of Life Sciences.
2012: Visiting Researcher Award, Netherlands Organization for Scientific Research.
1999: Austin Roberts Chair of Mammalogy, University of Pretoria (held until leaving in 2005).
1993: Visiting Scholarship, Sidney Sussex College, Cambridge, UK.
1988: De Beers Chairman's Fund Award.

RESEARCH

My research interests are diverse, but I focus mainly on the ecology of large mammals in terrestrial ecosystems. My particular interests include interactions among species of different body size within trophic guilds, interactions between ungulates and their food plants, and differences in behavior, diet, and habitat use among sex and age classes within large mammal populations. Together with my students and postdocs, I investigate these topics by conducting field studies on indigenous ungulates and large predators in African savannas and western American rangelands. An emerging theme of my research and publications is the conservation of terrestrial ecosystem processes within an adaptive framework of science and management.

TEACHING

I have been continuously involved in teaching at undergraduate and graduate levels since 1990, having taught at the University of Zimbabwe (1990-98), the University of Pretoria (1999-2005), Hedmark University in Norway (2008) and Utah State University (2005- present). Courses have covered ecology, ethology, biometry, mammalogy, conservation biology, wildlife management, and resilience of social-ecological systems. I have also taught on a one-month graduate-level immersion course in tropical ecology, run by the Tropical Biology Association in Kibale Forest, Uganda (2015).

POSTDOCTORAL RESEARCH FELLOWS

- 2014-2015: Dr. Dustin Ranglack (PhD from Utah State University, USA)
2003-2004: Dr. Pierre Pistorius (PhD from the University of Pretoria, South Africa)
2001-2003: Dr. Elissa Cameron (PhD from Massey University, New Zealand)
1999-2000: Dr. Andrew Woolnough (PhD from James Cook University, Australia)
1995-1996: Dr. Chris Carbone (PhD from Oxford University, UK)

GRADUATE STUDENTS

To date, in the role of major advisor, I have brought 13 PhD and 20 MS (research) students through to successful graduation. This is in addition to those I am currently advising and the numerous graduate students whose advisory committees I am on, or have served on in the past. Three of my former students have won **international awards** for the quality of their research with me: Dustin Ranglack (2015) and Craig Tambling (2005) both won the Southwood Prize from the British Ecological Society; Dario Fornara won the "best young researcher" award from the Italian Ecological Society (2007).

Doctoral projects in progress:

- Cotterill, G.G. Disease ecology of brucellosis in free-ranging elk in the Greater Yellowstone Ecosystem. PhD in progress, Utah State University. Gavin is a prestigious Quinney Fellow.
Tyrrell, P.D. Social-ecological dynamics at the livestock-wildlife interface in an African savanna. DPhil in progress, University of Oxford (co-supervised by Prof. David Macdonald). Pete is a WildCRU Mistler Scholar.

Doctoral projects completed:

- Ranglack, D.H. (2014) American bison ecology and bison-cattle interactions in an isolated montane environment. PhD, Utah State University. Dr. Ranglack was a Stokes-Leopold Scholar during his PhD studies, then conducted postdoctoral work with me on bison population genetics, then moved to a postdoctoral position at Montana State University, and is now on the faculty of the University of Nebraska at Kearney (USA).
Tambling, C.J. (2010) Movement analysis for monitoring predation by large carnivores: lions in Kruger National Park. PhD, University of Pretoria (NRF Prestigious Doctoral Bursary). Co-supervised with Prof. W. Getz (University of California, Berkeley) and Prof. E. Cameron

- (University of Pretoria). Dr. Tambling moved on to a postdoctoral position at Nelson Mandela Metropolitan University and is now on the faculty of Fort Hare University (South Africa).
- Slater, K.A. (2009) The functional significance of grooming behaviour in higher primates: the case of free-living chimpanzees. PhD, University of Pretoria. Co-supervised with Prof. E. Cameron (University of Pretoria) and Prof. V. Reynolds (Oxford University). Dr. Slater is now on the faculty of the University of South Africa.
- De Nagy Koves Hrabar, H. (2006) Ecological interactions between elephants, caterpillars and mopane trees. PhD, University of Pretoria. Dr. Hrabar received an NRF Grantholder-Linked Doctoral Bursary and moved on to postdoctoral positions involving research in Tanzania (Norwegian University of Science and Technology) and South Africa (Nelson Mandela Metropolitan University).
- Cross, P.C. (2005) Ecological, demographic and epizootological factors determining the spread of bovine tuberculosis in the buffalo population of the Kruger National Park. PhD, University of California, Berkeley (co-supervised with Prof. W. Getz). Dr. Cross received an NSF Doctoral Fellowship and is now a Research Wildlife Biologist with the USGS Northern Rocky Mountain Science Center in Montana (USA).
- Fornara, D. (2005) Browsing as an ecosystem process: ungulate-tree-soil interactions in southern African savannas. PhD, University of Pretoria. Dr. Fornara received a Marie Curie Doctoral Fellowship, followed by a Marie Curie Postdoctoral Fellowship, and is now Principal Scientific Officer, AgriFood & Biosciences Institute, Northern Ireland (UK).
- Greyling, M.D. (2004) Sex- and age-related distinctions in the feeding ecology of the African elephant. PhD, University of the Witwatersrand (co-supervised with Prof. N. Owen-Smith). Dr. Greyling (now Henley) was awarded an NRF Prestigious Doctoral Bursary during her studies and she is now Program Manager and Principal Researcher with the NGO “Elephants Alive” (South Africa).
- Rutina, L. (2004) Impalas (*Aepyceros melampus*) as mediators of woody vegetation dynamics: Chobe National Park, Botswana. Dr. Scient., Agricultural University of Norway (co-supervised with Prof. S. Moe and Prof. J. Swenson). Dr. Rutina became Director of Research for the Botswana Department of National Parks and Wildlife Management and is now on the faculty of the University of Botswana.
- Lindsey, P.A. (2003) Conserving wild dogs (*Lycaon pictus*) outside state protected areas in South Africa: ecological, sociological and economic determinants of success. Ph.D., University of Pretoria. Dr. Lindsey completed a postdoctoral fellowship with the WCS-funded Samburu-Laikipia Wild Dog Project (Kenya). He is now a scientist with Panthera and a Research Fellow in the Mammal Research Institute (South Africa).
- Begg, C.M. (2001) Feeding ecology and social organization of honey badgers (*Mellivora capensis*) in the southern Kalahari. Ph.D., University of Pretoria. Dr. Begg is now running the Niassa Carnivore Project in Mozambique.
- Stokke, S. (2000) Sexual segregation in the African elephant (*Loxodonta africana*). Dr. Scient., Norwegian University of Science and Technology. Dr. Stokke is now a Senior Researcher in the Norwegian Institute for Nature Research (Norway).
- Butler, J.R.A. (1998) The ecology of domestic dogs *Canis familiaris* in the communal lands of Zimbabwe. D.Phil., University of Zimbabwe (Yvonne Parffitt Doctoral Fellowship). Dr. Butler is now Leader, Livelihoods & Environment Group, Tropical Landscapes Program, CSIRO Sustainable Ecosystems (Australia).
- Hoare, R.E. (1997) The effects of interaction with humans on elephant populations of Sebungwe Region, Zimbabwe. D.Phil., University of Zimbabwe. Dr. Hoare became Veterinary Ecologist for Serengeti National Park, attached to the Tanzania Wildlife Research Institute and employed by the Messerli Foundation (Switzerland).

EXTERNAL EXAMINING & REVIEWING

I have served as external examiner (or in Scandinavia and Western Europe as an ‘opponent’) of graduate student dissertation/thesis work submitted at various universities in Australia, Botswana, Canada, France, Netherlands, South Africa, and Sweden. I have also served as external reviewer of tenure and/or promotion packages at universities in Canada, France, New Zealand, and the USA.

EDITORIAL BOARDS

- 2007-present: Associate Editor, *Journal of Applied Ecology*, published by the British Ecological Society and Wiley-Blackwell.

- 2006-2009: Member, International Editorial Board, *Wildlife Research*, published by CSIRO Publishing and the Australian Academy of Science.
- 2002-2009: Associate Editor, *Wildlife Biology*, published by the Nordic Council for Wildlife Research and the French National Game and Wildlife Service.
- 2001-2007: Associate Editor, *African Journal of Wildlife Research*, published by the Southern African Wildlife Management Association.
- 2003-2005: Chairman, Editorial Committee, *The Mammals of the Southern African Subregion, Third Edition* (revised by J.D. Skinner & C.T. Chimimba), Cambridge University Press.
- 2001: Advisory Editor, *The New Encyclopaedia of Mammals* (edited by D. Macdonald), Oxford University Press.

PROFESSIONAL SOCIETIES

Ecological Society of America

Society for Conservation Biology

British Ecological Society

Southern African Wildlife Management Association (President 2004-2005; Vice-President 2000-2004)

Zoological Society of Southern Africa

PUBLICATIONS

BOOKS (peer reviewed)

- Pettorelli, N., Durant, S.M. & **du Toit, J.T.** (eds.) 2019. *Rewilding. Ecological Reviews*, British Ecological Society and Cambridge University Press, Cambridge, UK (437 pp).
- Skarpe, C., **du Toit, J.T.** & Moe, S.R. (eds.) 2014. *Elephants and Savanna Woodland Ecosystems: A Study from Chobe National Park, Botswana*. Zoological Society of London and Wiley-Blackwell, Chichester, UK (304 pp).
- du Toit, J.T.**, Kock, R. & Deutsch, J. (eds.) 2010. *Wild Rangelands: Conserving Wildlife While Maintaining Livestock in Semi-Arid Ecosystems*. Zoological Society of London and Wiley-Blackwell, Chichester, UK (424 pp).
- du Toit, J.T.**, Rogers, K.H. & Biggs, H.C. (eds.) 2003. *The Kruger Experience: Ecology and Management of Savanna Heterogeneity*. Island Press, Washington, DC, USA (519 pp).
- Christoffersen, N., Campbell, B. & **du Toit, J.T.** (eds.) 1998. *Communities and Sustainable Use: Pan-African Perspectives*. IUCN - The World Conservation Union, Harare, Zimbabwe (188 pp).

JOURNAL ARTICLES AND BOOK CHAPTERS (peer reviewed)

Names in italics are/were students or postdocs working under my supervision

- du Toit, J.T.** 2019. Pleistocene rewilding: an enlightening thought experiment. Pages 55-72 in: N. Pettorelli, S.M. Durant & **J.T. du Toit** (eds.) *Rewilding. Ecological Reviews*, British Ecological Society and Cambridge University Press, Cambridge, UK.
- Butler, J.R.A., Brown, W.Y. & **du Toit, J.T.** 2018. Anthropogenic food subsidy to a commensal carnivore: the value and supply of human faeces in the diet of free-ranging dogs. *Animals* 8: 67; doi:10.3390/ani8050067
- Cotterill, G.G., Cross, P.C., Middleton, A.D., Rogerson, J.D., Scurlock, B.M. & **du Toit, J.T.** 2018. Hidden cost of disease in a free-ranging ungulate: brucellosis reduces mid-winter pregnancy in elk. *Ecology and Evolution* 8:10733-10742.
- Cotterill, G.G., Cross, P.C., Cole, E.K., Fuda, R.F., Rogerson, J.D., Scurlock, B.M. & **du Toit, J.T.** 2018. Winter feeding of elk in the Greater Yellowstone Ecosystem and its effects on disease dynamics. *Philosophical Transactions of the Royal Society B* 373:20170093. <http://dx.doi.org/10.1098/rstb.2017.0093>
- Pettorelli, N., Barlow, J., Stephens, P.A., Durant, S.M., Connor, B., Schulte to Bühne, H., Sandom, C.J., Wentworth, J. & **du Toit, J.T.** 2018. Making rewilding fit for policy. *Journal of Applied Ecology* 55:1114-1125.

- Curtis, A. & **du Toit, J.T.** 2017. Efficacy of travel management areas for reducing disturbance to mule deer during hunting seasons. *Wildlife Society Bulletin* 41(2):309-312.
- du Toit, J.T.**, Cross, P.C. & Valeix, M. 2017. Managing the livestock-wildlife interface on rangelands. Pages 395-425 in: D.D. Briske (ed.) *Rangeland Systems: Processes, Management and Challenges*. Springer Series on Environmental Management, New York, USA.
- Ranglack, D.H., Neuman-Lee, L.A., French, S.S. & **du Toit, J.T.** 2017. Considerations of context and scale when using fecal glucocorticoids to indicate stress in large mammals: a study of wild American plains bison. *Southwestern Naturalist* 62(1):62-68.
- Begg, C.M., Begg K.S., Do Linh San, E., **du Toit, J.T.** & Mills, M.G.L. 2016. An evaluation of techniques used for the capture, immobilization, marking, and habituation of honey badgers. Pages 339-361 in: G. Proulx & E. Do Linh San (eds.) *Badgers: Systematics, Biology, Conservation and Research Techniques*. Alpha Wildlife Publications, Sherwood Park, Alberta, Canada.
- Begg, C.M., Begg K.S., Do Linh San, E., **du Toit, J.T.** & Mills, M.G.L. 2016. Sexual and seasonal variation in the activity patterns and time budget of honey badgers in an arid environment. Pages 161-192 in: G. Proulx & E. Do Linh San (eds.) *Badgers: Systematics, Biology, Conservation, and Research Techniques*. Alpha Wildlife Publications, Sherwood Park, Alberta, Canada.
- Collins, K. & **du Toit, J.T.** 2016. Population status and distribution modelling of the critically endangered riverine rabbit (*Bunolagus monticularis*). *African Journal of Ecology* 54:195-206
- Ranglack, D.H. & **du Toit, J.T.** 2016. Bison with benefits: towards integrating wildlife and ranching sectors on a public rangeland in the western USA. *Oryx* 50(3):549-554
- Ranglack, D.H., Dobson, L.K., **du Toit, J.T.** & Derr, J. 2015. Genetic analysis of the Henry Mountains bison herd. *PLoS ONE* 10(12): e0144239
- Ranglack, D.H. & **du Toit, J.T.** 2015. Habitat selection by free-ranging bison in a mixed grazing system on public land. *Rangeland Ecology & Management* 68:349-353
- Ranglack, D.H. & **du Toit, J.T.** 2015. Wild bison as ecological indicators of the effectiveness of management practices to increase forage quality on open rangeland. *Ecological Indicators* 56:145-151
- Ranglack, D.H., Durham, S. & **du Toit, J.T.** 2015. Competition on the range: science vs. perception in a bison-cattle conflict in the western USA. *Journal of Applied Ecology* 52:467-474 [Note: this paper won the Southwood Prize from the British Ecological Society, was F1000 recommended, and was "Editor's Choice" in its journal issue]
- du Toit, J.T.** & Olf, H. 2014. Generalities in grazing and browsing ecology: using across-guild comparisons to control contingencies. *Oecologia* 174:1075-1083
- du Toit, J.T.**, Moe, S.R. & Skarpe, C. 2014. Elephant-mediated ecosystem processes in Kalahari-sand woodlands. Pages 30-39 in: C. Skarpe, **J.T. du Toit** & S.R. Moe (eds.) *Elephants and Savanna Woodland Ecosystems: A Study from Chobe National Park, Botswana*. Zoological Society of London and Wiley-Blackwell, Chichester, UK.
- du Toit, J.T.**, Skarpe, C. & Moe, S.R. 2014. Elephants and heterogeneity in savanna landscapes. Pages 289-298 in: C. Skarpe, **J.T. du Toit** & S.R. Moe (eds.) *Elephants and Savanna Woodland Ecosystems: A Study from Chobe National Park, Botswana*. Zoological Society of London and Wiley-Blackwell, Chichester, UK.
- Hrbar, H. & **du Toit, J.T.** 2014. Interactions between megaherbivores and microherbivores: elephant browsing reduces host plant quality for caterpillars. *Ecosphere* 5(1):7
<http://dx.doi.org/10.1890/ES13-00173.1>
- Moe, S.R., Rutina, L., Hytteborn, H. & **du Toit, J.T.** 2014. Impala as controllers of elephant-driven change within a savanna ecosystem. Pages 154-171 in: C. Skarpe, **J.T. du Toit** & S.R. Moe (eds.) *Elephants and Savanna Woodland Ecosystems: A Study from Chobe National Park, Botswana*. Zoological Society of London and Wiley-Blackwell, Chichester, UK.

- Stokke, S. & **du Toit, J.T.** 2014. The Chobe elephants: one species, two niches. Pages 104-117 in: C. Skarpe, **J.T. du Toit** & S.R. Moe (eds.) *Elephants and Savanna Woodland Ecosystems: A Study from Chobe National Park, Botswana*. Zoological Society of London and Wiley-Blackwell, Chichester, UK.
- du Toit, J.T.** 2013. *Raphicerus campestris* Steenbok (Steinbuck, Steinbok) . Pages 311-314 in: Kingdon, J. & Hoffmann, M. (eds.) *Mammals of Africa, vol. VI*. Bloomsbury, London, UK.
- Koons, D.N., Terletzky, P., Adler, P.B., Wolfe, M.L., *Ranglack, D.*, Howe, F.P., Hersey, K., Paskett, W. & **du Toit, J.T.** 2012. Climate and density-dependent drivers of recruitment in plains bison. *Journal of Mammalogy* 93:475-481
- Tambling, C.J.*, Laurence, S.D., Bellan, S.E., Cameron, E.Z., **du Toit, J.T.**, & Getz, W.M. 2012. Estimating carnivoran diets using a combination of carcass observations and scats from GPS clusters. *Journal of Zoology* 286:102-109
- du Toit, J.T.** 2011. Coexisting with cattle. *Science* 333:1710-1711
- du Toit, J.T.** 2010. Considerations of scale in biodiversity conservation. *Animal Conservation* 13:229-236
- du Toit, J.T.** 2010. Addressing the mismatches between livestock production and wildlife conservation across spatiotemporal scales and institutional levels. Pages 30-52 in: **J.T. du Toit**, R. Kock & J. Deutsch (eds.) *Wild Rangelands: Conserving Wildlife While Maintaining Livestock in Semi-Arid Ecosystems*. Zoological Society of London and Wiley-Blackwell, Chichester, UK.
- Tambling, C.J.*, Cameron, E.Z., **du Toit, J.T.** & Getz, W.M. 2010. Methods for locating African lion kills using global positioning system movement data. *Journal of Wildlife Management* 74(3):549-556
- Arnot, L.F.*, **du Toit, J.T.** & Bastos, A.D.S. 2009. Molecular monitoring of African swine fever control areas: adult-tick targeted re-evaluation of Mkuze Game Reserve, South Africa. *Onderstepoort Journal of Veterinary Research* 76:385-392
- Bonenfant, C., Gaillard, J.-M., Coulson, T., Festa-Bianchet, M., Loison, A., Garel, M., Loe, L.E., Blanchard, P., Pettorelli, N., Owen-Smith, N., **du Toit, J.** & Duncan, P. 2009. Empirical evidence of density-dependence in populations of large herbivores. *Advances in Ecological Research* 41:314-352
- Cross, P.C.*, Heisey, D.M., Bowers, J.A., Hay, C.T., Wolhuter, J., Buss, P., Hofmeyr, M., Michel, A.L., Bengis, R.G., Bird, T.L.F., **du Toit, J.T.** & Getz, W.M. 2009. Disease, predation, and demography: assessing the impacts of bovine tuberculosis on African buffalo by monitoring at individual and population levels. *Journal of Applied Ecology* 46:467-475
- Moe, S.R., *Rutina, L.P.*, Hytteborn, H., & **du Toit, J.T.** 2009. What controls woodland regeneration after elephants have killed the big trees? *Journal of Applied Ecology* 46:223-230
- Hrabar, H.*, Hattas, D. & **du Toit, J.T.** 2009. Differential effects of defoliation by mopane caterpillars and pruning by African elephants on the regrowth of *Colophospermum mopane* foliage. *Journal of Tropical Ecology* 25:301-309
- Hrabar, H.*, Hattas, D. & **du Toit, J.T.** 2009. Intraspecific host preferences of mopane moths (*Imbrasia belina*) in mopane (*Colophospermum mopane*) woodland. *African Zoology* 44:131-140
- Fornara, D.A.* & **du Toit, J.T.** 2008. Community-level interactions between ungulate browsers and woody plants in an African savanna dominated by palatable-spinescent *Acacia* trees. *Journal of Arid Environments* 72 :534-545
- Fornara, D.A.* & **du Toit, J.T.** 2008. Browsing-induced effects on leaf litter quality and decomposition in a southern African savanna. *Ecosystems* 11:238-249
- Fornara, D.A.* & **du Toit, J.T.** 2008. Responses of woody saplings exposed to chronic mammalian herbivory in an African savanna. *Ecoscience* 15:129-135

- Slater, K., Cameron, E., Turner, T., & **du Toit, J.T.** 2008. The influence of oestrous swellings on the grooming behavior of chimpanzees of the Budongo Forest, Uganda. *Behaviour* 145:1235-1246
- Viljoen, J.J., Ganswindt, A., Palme, R., Reynecke, H.C., **du Toit, J.T.** & Langbauer, W.R. 2008. Measurement of concentrations of faecal glucocorticoid metabolites in free-ranging African elephants within the Kruger National Park. *Koedoe: African Protected Area Conservation and Science* 50:18-21
- Viljoen, J.J., Ganswindt, A., **du Toit, J.T.** & Langbauer, W.R. 2008. Translocation stress and faecal glucocorticoid metabolite levels in free-ranging African savanna elephants. *South African Journal of Wildlife Research* 38(2):146-152
- Cameron, E.Z. & **du Toit, J.T.** 2007. Winning by a neck: tall giraffes avoid competing with smaller browsers. *The American Naturalist* 169:130-135
- Fornara, D.A. & **du Toit, J.T.** 2007. Browsing lawns? Responses of *Acacia nigrescens* to ungulate browsing in an African savanna. *Ecology* 88:200-209 [Note: this paper was recognized by the Italian Ecological Society as the best by a young Italian ecologist (Fornara) in 2006-07]
- Garnett, S., Sayer, J. & **du Toit, J.T.** 2007. Improving the effectiveness of interventions to balance conservation and development: a conceptual framework. *Ecology and Society* 12(1):2.[online] URL: <http://www.ecologyandsociety.org/vol12/iss1/art2/>
- Buettner, U.K., Davies-Mostert, H.T., **du Toit, J.T.**, & Mills, M.G.L. 2007. Factors affecting juvenile survival in African wild dogs (*Lycaon pictus*) in Kruger National Park, South Africa. *Journal of Zoology* 272:10-19
- Moe, S.R., Rutina, L.P. & **du Toit, J.T.** 2007. Trade-off between resource seasonality and predation risk explains reproductive chronology in impala. *Journal of Zoology* 273:237-243
- Fleming, P.A., Hofmeyr, S.D., Nicolson, S.W. & **du Toit, J.T.** 2006. Are giraffes pollinators or flower predators of *Acacia nigrescens* in Kruger National Park, South Africa? *Journal of Tropical Ecology* 22:247-253.
- Begg, C.M., Begg, K.S., **du Toit, J.T.** & Mills, MGL. 2005. Life history parameters of an atypical tropical mustellid, the honey badger *Mellivora capensis*. *Journal of Zoology* 265(1):17-22
- Begg, C.M., Begg, K.S., **du Toit, J.T.** & Mills, M.G.L. 2005. Spatial organization of the honey badger *Mellivora capensis* in the southern Kalahari: factors affecting home range size and movement patterns. *Journal of Zoology* 265(1):23-35
- Cameron, E.Z. & **du Toit, J.T.** 2005. Social influences on vigilance behaviour in giraffes (*Giraffa camelopardalis*). *Animal Behaviour* 69:1337-1344
- Carbone, C., Frame, L., Frame, G., Malcom, J., Fanshawe, J., FitzGibbon, C., Schaller, G., Gordon, I.J., Rowcliffe, J.M. and **du Toit, J.T.** 2005. Feeding success of African wild dogs in the Serengeti: the effects of group size and kleptoparasitism. *Journal of Zoology* 266:153-161
- du Toit, J.T.** & Yetman, C.A. 2005. Effects of body size on the diurnal activity budgets of African browsing ruminants. *Oecologia* 143:317-325
- du Toit, J.T.** 2005. Sex differences in the foraging ecology of large mammalian herbivores. Pages 35-52 in: Ruckstuhl, K. and Neuhaus, P (eds.) *Sexual Segregation in Vertebrates: Ecology of the Two Sexes*. Cambridge University Press, Cambridge, UK.
- Hrabar, H. & **du Toit, J.T.** 2005. Dynamics of an introduced population of black rhinoceros (*Diceros bicornis*): Pilanesberg National Park, South Africa. *Animal Conservation* 8(3):259-267
- Lindsey, P.A., Alexander, R., **du Toit, J.T.** & Mills, M.G.L. 2005. The cost efficiency of wild dog *Lycaon pictus* conservation in South Africa. *Conservation Biology* 19(4):1205-1215
- Lindsey, P.A., **du Toit, J.T.**, Mills, M.G.L. & Alexander, R. 2005. The potential contribution of ecotourism to wild dog *Lycaon pictus* conservation. *Biological Conservation*. 123:339-348

- Lindsey, P.A., **du Toit, J.T.** & Mills, M.G.L. 2005. Attitudes of ranchers towards African wild dogs *Lycaon pictus*: conservation implications on private land. *Biological Conservation* 125:113-121
- Main, M.B. & **du Toit, J.T.** 2005. Sex differences in reproductive strategies affect habitat choice in ungulates. Pages 148-161 in: Ruckstuhl, K. and Neuhaus, P (eds.) *Sexual Segregation in Vertebrates: Ecology of the Two Sexes*. Cambridge University Press, Cambridge, UK.
- Tambling, C.J. & **du Toit, J.T.** 2005. Modeling wildebeest population dynamics: implications of predation and offtake in a closed system. *Journal of Applied Ecology* 42:431-441 [Note: this paper won the Southwood Prize from the British Ecological Society]
- Butler, J.R.A., **du Toit, J.T.** & Bingham, J. 2004. Free-ranging domestic dogs (*Canis familiaris*) as predators and prey in rural Zimbabwe: competition and disease threats to large wild carnivores. *Biological Conservation* 115:369-378
- Davies, H. & **du Toit, J.T.** 2004. Anthropogenic factors affecting wild dog (*Lycaon pictus*) reintroductions: a case study in Zimbabwe. *Oryx* 38(1):32-39
- du Toit, J.T.**, Walker, B.H. & Campbell, B.M. 2004. Conserving tropical nature: current challenges for ecologists. *Trends in Ecology and Evolution* 19(1):12-17
- du Toit, J.T.** 2004. Response to Burke. Conserving tropical biodiversity: the arid end of the scale. *Trends in Ecology and Evolution* 19(5):226
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OTHER SCIENTIFIC PUBLICATIONS

- du Toit, J.T.** 2007. Standardizing the data on vehicle-wildlife collisions. *Human-Wildlife Conflicts* 2:3-4
- du Toit, J.T.** 2005. Working within constraints: managing animal production and biodiversity conservation in African savannas. Pages 81-89 in: J. Milne (ed.) *Pastoral Systems in Marginal Environments. Proceedings of a satellite workshop of the XXth International Grassland Congress, July 2005, Glasgow, Scotland*. Wageningen Academic Publishers, Wageningen, Netherlands.
- du Toit, J.T.** & Fritz, H. 2003. Size matters: body size diversity and resource use efficiency in ungulate guilds. Pages 499-501 in: N. Allsopp, A.R. Palmer, S.J. Milton, K.P. Kirkman, G.I.H. Kerley, C.R. Hurt, and C.J. Brown (eds.) *Proceedings of the VIIth International Rangelands Congress, July/August 2003, Durban, South Africa*. Document Transformation Technologies, Irene, South Africa.
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INVITED SEMINARS

- 2018: WildCRU, Dept. of Zoology, University of Oxford, England, UK.
- 2018: Utah Field House of Natural History, Vernal, Utah, USA.
- 2017: Dept. Ecosys. Sci. & Mgmt. (Dyksterhuis Lecture Award), Texas A&M University, USA.
- 2017: Dept. Environ. Sci. Policy & Mgmt., University of California at Berkeley, USA.
- 2016: Faculty of Appl. Ecol. & Agric. Sci., Hedmark University of Applied Sciences, Norway.
- 2013: Dept. Ecology & Nat. Res. Mgmt., Norwegian University of Life Sciences, Ås, Norway.
- 2012: Centre for Ecological & Evolutionary Studies, University of Groningen, the Netherlands.
- 2012: Département de Biologie, Université Laval, Quebec, Canada.
- 2011: Dept. of Zoology, Southern Illinois University, Carbondale, Illinois, USA.

2010: Centre for Ecological & Evolutionary Studies, University of Groningen, the Netherlands.
 2009: Dept. of Biology, University of Utah, Salt Lake City, Utah, USA.
 2008: Dept. Wildlife, Fish & Environ. Studies, Swedish Univ. of Agric. Sciences, Umeå, Sweden.
 2008: Department of Biological Sciences, Idaho State University, USA.
 2007: Faculty of Forestry & Wildlife Management, Hedmark University College, Norway.
 2007: Ecology, Evolution and Conservation Biology Program, University of Nevada, Reno, USA.
 2004: Dept. of Forest, Range & Wildlife Sciences, Utah State University, USA.
 2004: Dept. of Rangeland Ecology and Management, Texas A&M University, USA.
 2003: Dept. of Animal Ecology, Swedish University of Agricultural Sciences, Umeå, Sweden.
 2002: Environmental Forum, Wits University, Johannesburg, South Africa.
 2001: Dept. of Animal, Plant & Environ. Sciences, Wits University, Johannesburg, South Africa.
 2001: Centre d'Etudes Biologique de Chize, Beauvoir-sur-Niort, France.
 2001: Laboratoire d'Ecologie, Ecole Normale Supérieure, Paris, France.
 2000: Dept. of Zoology, Norwegian University of Science and Technology, Trondheim, Norway.
 1998: Norwegian Institute for Nature Research, Trondheim, Norway.
 1996: Macaulay Land Use Research Institute, Aberdeen, Scotland, UK.
 1996: Institute of Cell, Animal and Population Biology, University of Edinburgh, Scotland, UK.
 1994: Center for Environment and Development, University of Trondheim, Norway.
 1993: Macaulay Land Use Research Institute, Aberdeen, Scotland, UK.
 1989: College of Natural Resources, Utah State University, Logan, Utah, USA.
 1989: Institute of Ecosystem Studies, Millbrook, New York, USA.
 1989: School for Field Studies, Beverly, Massachusetts, USA.

INTERNATIONAL CONFERENCES AND WORKSHOPS

Listed below are the international conferences and workshops I have participated in as an invited delegate (I have been invited to others that I have had to decline due to pre-existing commitments):

Zoological Society of London symposium on “Rewilding in a changing climate”, Regence Park, London, UK (12/2018). Invited presentation: **du Toit, J.T.** 2018. Rewilding in conservation - focusing on functions more than species.

Giraffe Conservation Science Symposium, Smithsonian Conservation Biology Institute, Front Royal, Virginia, USA (5/2018). Thematic overview: **du Toit, J.T.** 2018. Giraffe spatial ecology and determinants of habitat selection.

University of Pretoria conference celebrating the 50th Anniversary of the Mammal Research Institute. Mopani Rest Camp, Kruger National Park, South Africa (9/2016). Keynote presentation: **du Toit, J.T.** 2016. Adaptive management of large wild mammals and livestock in Anthropocene ecosystems.

Swedish University of Agricultural Sciences workshop on “Herbivores as ecological tools”. Umeå, Sweden (11/2013). Invited oral presentation: **du Toit, J.T.** 2013. The global herbivore fauna: both toolbox and warehouse of parts for novel ecosystems.

Ecological Society of America 2011 annual meeting. Organized Oral Session #10: Science-Based Management Strategies and the Future of Grasslands, Shrublands, and Savannas in North America. Austin, Texas, USA (8/2011). Oral presentation: **du Toit, J.T.** 2011. Balancing livestock production and wildlife conservation: can rangelands also be wildlands?

BIOCONSUS (EU 7th Framework) workshop organized by the Mammal Research Institute, Polish Academy of Sciences, on “Understanding the role of mammalian herbivores in shaping woody plant communities; what can we learn from a cross-continental comparison?” Bialowieza, Poland (10/2010). Introductory seminar: **du Toit, J.T.** 2010. The browsing web: responses of woody plants to browsers and plant-mediated responses of browsers to other browsers.

Society for Conservation Biology 21st Annual Meeting, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa (7/2007). Invited oral presentation: **du Toit, J.T.** & Biggs, H.C. 2007. Working within thresholds: integrating science and management in large protected areas.

Symposium of the Zoological Society of London and the Wildlife Conservation Society on “Wild rangelands: conservation in the world’s grazing ecosystems”. London, UK (1/2006). Invited oral

presentation: **du Toit, J.T.** 2006. Identifying the most effective intervention points for rangeland conservation: working across spatiotemporal scales.

XXth International Grassland Congress: satellite workshop on pastoral systems in marginal environments, Glasgow, Scotland (7/2005). Keynote presentation: **du Toit, J.T.** 2005. Working within constraints: managing animal production and biodiversity conservation in African savannas.

CNRS Programme International de Coopération Scientifique (PICS) workshop on “Plant-herbivore dynamics in changing environments – developing appropriate models for adaptive management”. Centre d’Etudes Biologiques de Chizé, France (6/2004). Invited oral presentation: **du Toit, J.T.** 2004. Browsers and savanna heterogeneity: agents, controllers and responders.

CIFOR / Resilience Alliance / Rainforest Challenge workshop on “Identifying points of intervention in social-ecological systems”. Malinau, East Kalimantan (Borneo), Indonesia (8/2004). Invited oral presentation: **du Toit, J.T.** 2004. Thinking outside the box: some African savanna case studies.

3rd IUCN World Conservation Congress: WCS-organized workshop on “Wildlife as indicators for ecosystem management”. Bangkok, Thailand (11/2004). Keynote presentation: **du Toit, J.T.** 2004. Managing wildlife to maintain landscape heterogeneity: conserving agents, identifying thresholds, and monitoring key indicators.

VIIth International Rangelands Congress, Durban, South Africa (7/2003). Invited oral presentation: **du Toit, J.T.** & Fritz, H. 2003. Size matters: body size diversity and resource use efficiency in ungulate guilds.

Society for Conservation Biology 16th Annual Meeting, University of Kent at Canterbury, UK (7/2002). Invited oral presentation: **du Toit, J.T.** & Reyers, B. 2002 Community-based conservation and transboundary parks: are they effectively conserving African biodiversity?

Sexual Segregation Workshop, Department of Zoology, University of Cambridge, UK (9/2002). Invited oral presentation: **du Toit, J.T.** & *Cameron, E.* 2002. Sexual segregation in large browsing ungulates: differences in body size, nutritional needs, avoidance of predation and same-sex conflict.

XVIIIth International Grassland Congress, Winnipeg, Canada (6/97). Keynote presentation: **du Toit, J.T.** & Cumming, D.H.M. 1997. Biodiversity in African savannas: functional significance and implications for animal production.

Norwegian Institute for Nature Research (NINA) workshop on conservation of the Serengeti ecosystem. Trondheim, Norway (10/94). Invited oral presentation: **du Toit, J.T.** 1994. Body size, dietary tolerance and species geographical range among African ungulates.

IPCC workshop on the impacts of global climate change on rangelands and grasslands. Villa Carlos Paz, Argentina (11/93). Invited participant.

International Conference on Conservation of Genetic Resources for Sustainable Development. Norwegian Institute for Nature Research, Røros, Norway (9/90). Invited participant.

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