

# Lindi Steyn

PhD Biodiversity and Conservation  
(*Cand Sci Nat*)

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Date of birth: 25 May 1988



## Profile Summary

Working experience throughout South Africa and neighbouring countries.

Specialist experience with mining, road development, engineering, renewable energy, protected areas, and biodiversity offsets.

Specialist guidance, support and facilitation for the compliance with legislative processes, for in-country requirements.

Specialist expertise include Avifauna and Terrestrial Ecology.

## Areas of Interest

Mining, Oil & Gas, Renewable Energy & Bulk Services Infrastructure Development, Sustainability and Conservation.

Research publication with a conservation influence.

Birding

## Key Experience

- Environmental Impact Assessment
- Terrestrial Ecological Assessments
- Rehabilitation Plans and Monitoring
- Avifaunal Conservation Surveys
- Conservation Management Plans
- Laboratory analysis
- The use of avifaunal species as indicators of pollution.

## Countries worked in

South Africa  
Swaziland  
Zimbabwe  
Lesotho

## Nationality

South African

## Languages

English – Proficient

Afrikaans – Proficient

## Qualifications

- PhD Biodiversity and Conservation, University of Johannesburg, South Africa.
- MSc Biodiversity and Conservation, University of Johannesburg, South Africa.
- BSc Hons Biodiversity and Conservation.
- BSc Botany and Zoology.
- Certificate in Field Guiding, Damelin.
- Certificate in Ecotraining.
- Field Guiding FGASA level 1 certificate (2007).

## SELECTED PROJECT EXPERIENCE

### Project Name:

Client: African Grass-owl (*Tyto Capensis*) Study

Personal position / role on project: Avifauna Specialist

Location: Ventersdorp North West (2021)

Main project features: Conduct a Grass Owl screening study for the presence of Grass Owls or habitat in a 10 km area in the Ventersdorp area.

### Project Name: Biodiversity baseline, impact review and offset for the proposed Lanseria waste water treatment works

Client: Zitholele

Personal position / role on project: Terrestrial Ecologist/Project Manager

Location: Lanseria Gauteng (2020)

Main project features: Compile a Biodiversity offset plan for the proposed development.

**Project Name: Avifauna baseline and impact assessment for the proposed Kwamhlanga to Gemsbok Powerline.**

Client: WSP

Personal position / role on project: Terrestrial Ecologist/Avifaunal specialist

Location: Kwamhlanga Mpumalanga (2020)

Main project features: To conduct a terrestrial and avifaunal environmental and impact assessment for the expected impact footprint area.

**Project Name: A terrestrial specialist baseline and impact assessment for the Beitbridge Border Crossing upgrade, in the Beitbridge Town, Zimbabwe.**

Client: Kongiwe.

Personal position / role on project: Avifaunal specialist

Location: Zimbabwe (Beitbridge) – October 2019

Main project features: To conduct a dry season (winter) ecological baseline and impact assessment for the proposed project. The study was required to meet national and IFC requirements, including a Critical Habitat assessment.

**Project Name: The Environmental and Social Impact Assessment (ESIA) the proposed Nondvo Dam**

Personal position / role on project: Terrestrial Ecologist

Location: Swaziland (2019)

Main project features: To conduct a dual season terrestrial and aquatic ecological baseline and impact assessment for the proposed dam. The study was required to meet national and IFC requirements, including a Critical Habitat assessment.

**Project Name: An environmental and impact assessment for the proposed Jozini (N2) road expansion for SANRAL, KwaZulu Natal, South Africa.**

Personal position / role on project: Terrestrial Ecologist.

Location: KwaZulu Natal, South Africa (2018).

Main project features: To conduct a terrestrial environmental and impact assessment for the expected impact footprint area.

**Project Name: Biodiversity Assessment associated with Greylingstad Waste Water Treatment work and reticulation network, Mpumalanga, South Africa.**

Personal position / role on project: Terrestrial Ecologist

Location: South Africa (2018).

Main project features: Conduct a detailed terrestrial ecology basic assessment for the expected impact footprint area.

**Project Name: An Environmental and impact assessment for the proposed Kalabasfontein Coal Mining Expansion Project, Mpumalanga, South Africa.**

Personal position / role on project: Terrestrial Ecologist/ Avifaunal specialist

Location: Mpumalanga, South Africa (2018)

Main project features: To conduct a terrestrial environmental and impact assessment for the expected impact footprint area.

## OVERVIEW

An overview of the specialist technical expertise includes the following:

- Terrestrial Ecological Assessments.
  - Faunal surveys which includes mammals, birds, amphibians and reptiles.
  - Conservation Plans and Monitoring for terrestrial component.
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- Avifaunal surveys.
- Biodiversity offset plans.
- Bioaccumulation assessments for birds
- Toxicity analysis of air dust samples, sediment, water and biota.

## EMPLOYMENT EXPERIENCE

### CURRENT EMPLOYMENT: The Biodiversity Company (May 2018 – Present)

I started working at The Biodiversity Company in mid-2018.

The team at The Biodiversity Company have conducted stand-alone specialist studies and provided overall guidance of studies with a pragmatic approach for the management of biodiversity that takes into account all the relevant stakeholders, most importantly the environment that is potentially affected. We manage risks to the environment to reduce impacts with practical, relevant and measurable methods.

My roles include:

- Faunal and Floral surveys for baseline, basic or impact assessments
- Report writing
- GIS map work
- Project management
- Technical assistant for fieldwork for the aquatics and wetland departments
- Specialist inputs to the above mention services.

### EMPLOYMENT: University of Johannesburg (January 2012 – July 2018)

UJ assigned me to the role of laboratory assistant and assistant lecture.

- Research
- Report writing
- Performed toxicity testing on biota, sediment, water and air dust samples.
- Completed day to day administration of the laboratory.
- Assisted with field work involving all the different specialist work which includes mammalogy, aquatics and botany.
- Lectured courses, including parasitology and Biology for teachers

## ACADEMIC QUALIFICATIONS

**University of Johannesburg, Johannesburg, South Africa (2018):** PHILOSOPHIAE DOCTOR (PhD) – Biodiversity and Conservation

Title: *The effect of DDT on the histology, reproductive success and overall health of the House Sparrow in designated areas.*

**University of Johannesburg, Johannesburg, South Africa (2013):** MAGISTER SCIENTIAE (MSc)- Biodiversity and Conservation

Title: Comparative determination of the numbers of four garden bird species, the House Sparrow, *Passer domesticus*, the Cape Glossy Starling, *Lamprotornis nitens*, the Cape Turtle Dove, *Streptopelia capicola* and the Laughing Dove, *Streptopelia senegalensis* in the Johannesburg and Vaalwater areas with study into possible causes of expected declines.

**University of Johannesburg, Johannesburg, South Africa (2011):** BACCALAUREUS SCIENTIAE CUM HONORIBUS (Hons) – Zoology

Title: The influence of agriculture on selected Mpumalanga Pans.

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**University of Johannesburg, Johannesburg, South Africa (2010):** BACCALAUREUS SCIENTIAE IN NATURAL AND ENVIRONMENTAL SCIENCES. Majors: Zoology and Botany.

**Damelin, Bramley, Johannesburg:** National Certificate in Field Guiding (Lodge Management) (2007)

**Damelin, Bramley, Johannesburg:** Field guiding FGASA level 1 certificate (2007)

**Damelin, Bramley, Johannesburg:** Ecotraining- Karongwe & Selati (2007)

## **PUBLICATIONS**

Steyn, L., Bouwman, H., Maina, J.N. (2018). Associations between DDT and egg parameters of the House Sparrow *Passer domesticus* from the Thohoyandou area of South Africa, Chemosphere.

Steyn, L., Bouwman, H., Maina, J.N. (2018). The effect of DDT and its metabolites on the structure of the shells of the eggs of the House Sparrow, *Passer domesticus*: A morphometric study. 7th International Toxicology Symposium in Africa.

Steyn, L., Bouwman, H., Maina, A.W, Hoffman, J., Maina, J.N. (2018). Bone density and asymmetry are not related to DDT in House Sparrows: insights from micro-focus X-ray computed tomography. Chemosphere.

Steyn, L., Maina, J.N. (2016). Comparison of the numbers of three species of birds in an urban- and a rural area of South Africa and possible relationship to the numbers of free (surface) macrophages in the respiratory systems. *Journal of Ornithology*

Willoughby, B., Steyn, L., Maina, J.N. (2015). X-ray microcomputed tomography study of the microstructure and the morphometry of the shell of the ostrich, *Struthio camerus*, egg. *Anatomical record*

Steyn, L., Maina, J.N. (2013). Die verwagte afname van die getalle van vier voël spesie, die Huisvossie, Kleinglansspreeu, Gewone Tortelduif en die Rooiborsduif in Gauteng en Limpopo provinsies en moontelike oorsake van die dalings. Die Suid-Afrikaanse akademie vir wetenskap en kuns afdeling biologiese wetenskappe, Pretoria.

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