



# **Terrestrial Animal Site Sensitivity Verification Report and Compliance Statement**

**Proposed residential development on RE281, Paapekuilfontein,  
Struisbaai.**

*Prepared for:* LORNAY ENVIRONMENTAL CONSULTING

October 2025

*Prepared by:* Jan A Venter

# **Terrestrial Animal Site Sensitivity Verification Report and Compliance Statement - Proposed residential development of RE281, Paapekuilfontein, Struisbaai.**

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- ❖ At the time of conducting the study and compiling this report, we did not have any interest, hidden or otherwise, in the proposed development that this study has reference to, except for financial compensation for work done in a professional capacity;
- ❖ Work performed for this study was done objectively. Even if this study results in views and findings that are not favourable to the client/applicant, I will not be affected in any manner by the outcome of any environmental process of which this report may form a part, other than being members of the general public;
- ❖ We declare that no circumstances may compromise my objectivity in performing this specialist investigation. We do not necessarily object to or endorse any proposed developments but aim to present facts, findings and recommendations based on relevant professional experience and scientific data;
- ❖ We do not have any influence over decisions made by the governing authorities;
- ❖ We undertake to disclose all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken concerning the application by a competent authority to such a relevant authority and the applicant;
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- ❖ All the particulars we furnished in this document are true and correct.



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Signature

14 October 2025

Date

## Executive summary

A terrestrial faunal site sensitivity verification and compliance statement was undertaken for the proposed residential development on RE281, Paapekuilfontein, Struisbaai, in accordance with the Gazetted Terrestrial Animal Species Protocol (2020), its 2023 amendments, and the DFFE Species Environmental Assessment Guidelines (2022). The assessment combined a desktop review of biodiversity data, evaluation of the DFFE screening tool outputs, and an on-site survey on 2 August 2025.

The DFFE screening tool identified the site as having a medium terrestrial animal sensitivity due to the potential occurrence of two Species of Conservation Concern (SCC): Southern Adder (*Bitis armata*) and Yellow-winged Agile Grasshopper (*Aneuryphymus montanus*). CapeNature additionally highlighted the African Black Oystercatcher (*Haematopus moquini*) as a species of interest due to sensitivity during the breeding season.

Findings indicate that the property is small (~0.760 ha) and largely modified, with four habitat types (Strandveld, Seashore vegetation, Sandy beach & rocky shores, and Seep) all showing signs of disturbance. Field surveys and habitat evaluations concluded that:

- I. Southern Adder – Habitat on-site is marginally suitable, with no rock slab refugia or other key microhabitat features; the likelihood of occurrence is low.
- II. Yellow-winged Agile Grasshopper – The site lacks montane fynbos habitat and falls well outside the species' ecological and elevational range; likelihood of occurrence is negligible.
- III. African Black Oystercatcher – While present in the broader area, the narrow local beach (<3 m outside tidal zone) and poor prey availability render the site unsuitable for breeding.

The verified terrestrial animal sensitivity of the site is therefore Low, with potential impacts on SCC assessed as low to very low. No SCC are expected to be significantly affected by the proposed development.

Precautionary recommendations include restricting construction to designated areas, implementing wildlife protection measures, maintaining seasonal buffers if oystercatcher nests are detected nearby (October–March), and applying strict waste management protocols. These measures will ensure alignment with biodiversity best practice and legal compliance, while minimising residual impacts on local fauna

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## Introduction

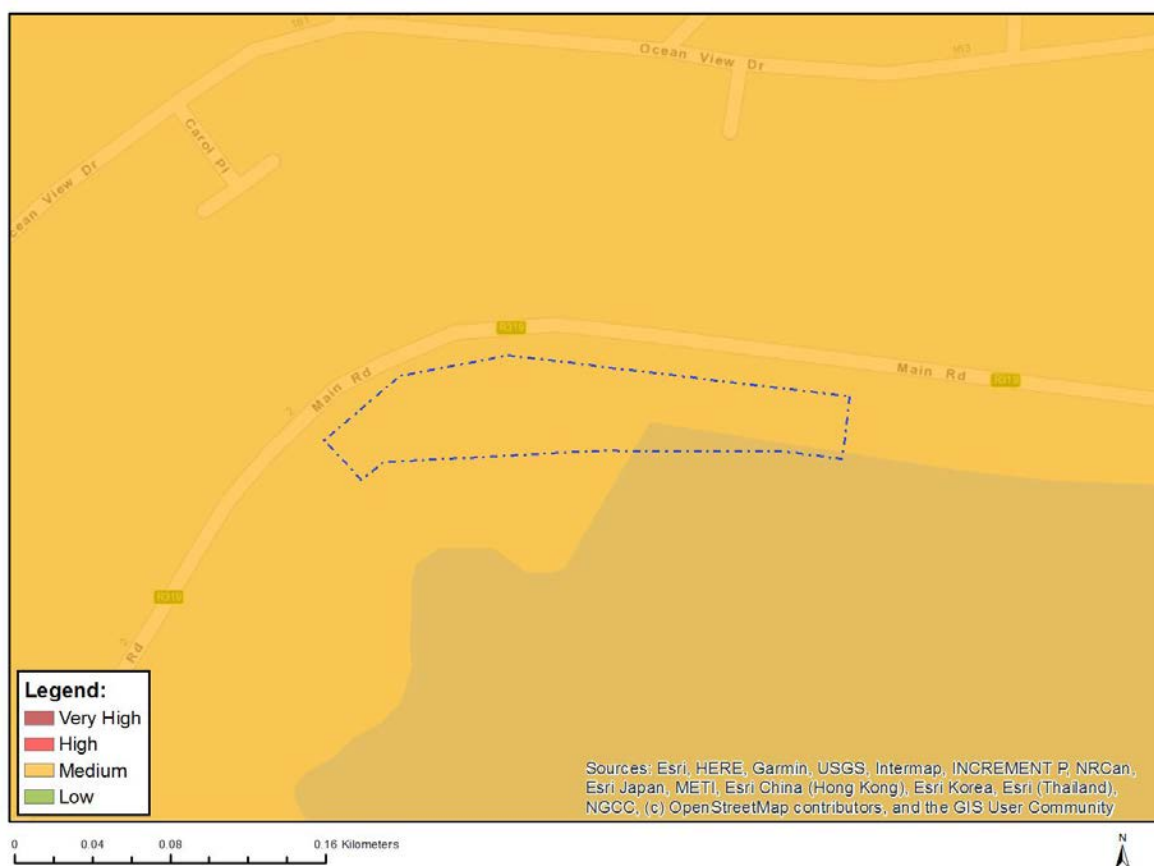
This report is a Site Sensitivity report and Terrestrial Animal Species Compliance Statement dealing with potential impacts on faunal species of the proposed residential development of RE281, Paapekuilfontein, Struisbaai. (Figure 1). The Department of Forestry, Fisheries and the Environment (DFFE) screening report (performed in November 2023) identified the site as having a '**Medium**' Animal Species Theme sensitivity (Lornay Environmental Consulting 2023)(Figure 2). A medium sensitivity requires the submission of a Site Sensitivity report and Terrestrial Animal Species Compliance Statement. This Compliance Statement reports on a site visit to the area that will be impacted by the development (the study area), during which the presence or possible presence of the Species of Conservation Concern (SCC) identified by the screening tool was determined. Animal species of concern ( $n=2$ ) that was identified by the screening tool are listed in Table 1.



**Figure 1: The cadastral boundary of the property RE281 investigated during the site visit.**

**Table 1: Animal species of concern identified by the screening report (Lornay Environmental Consulting 2023).**

| Sensitivity | Species name                 | Common name                     | Order        | Red List Status |
|-------------|------------------------------|---------------------------------|--------------|-----------------|
| Medium      | <i>Bitis armata</i>          | Southern Adder                  | Reptile      | VU              |
| Medium      | <i>Aneuryphymus montanus</i> | Yellow winged agile grasshopper | Invertebrate | VU              |



**Figure 2: Map of the relative animal species theme sensitivity as per (Lornay Environmental Consulting 2023)**

This faunal assessment has been undertaken in accordance with the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) and the associated Environmental Impact Assessment Regulations, 2014 (as amended).

In terms of Regulation 16(1)(v) of the EIA Regulations, the National Environmental Screening Tool must be applied to identify environmental sensitivities within the proposed development footprint. Where the screening tool identifies potential sensitivity for terrestrial animal species, specialist input is required in accordance with the gazetted environmental assessment protocols.

For this site, the screening tool flagged potential sensitivity for Terrestrial Animal Species. Consequently, this assessment has been undertaken in compliance with the following legally binding protocols:

- **Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Terrestrial Animal Species**

*Government Notice No. 320, Government Gazette No. 43110, 20 March 2020*

This protocol prescribes the process for site sensitivity verification, the circumstances under which a full specialist assessment is required, and the minimum reporting requirements for a compliance statement where the verified sensitivity is “Low”.

- **National Environmental Management Act (NEMA) – Amendment to the Protocols for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Animal and Plant Species**

*Government Notice No. 3562, Government Gazette No. 49028, 28 July 2023*

This amendment updates definitions, clarifies the requirements for site sensitivity verification, and confirms that such verification must be based on a combination of desktop analysis, site inspection, and other available sources of information.

- **Species Environmental Assessment Guidelines**

Department of Forestry, Fisheries and the Environment (DFFE), Version 3.1, September 2022

These guidelines provide supporting best-practice methods for undertaking assessments under the protocols, including appropriate survey methods, reporting standards, and the application of the mitigation hierarchy.

The present assessment therefore constitutes a faunal site sensitivity verification and a terrestrial animal species compliance statement in accordance with the above protocols and guidelines. It confirms the verified site sensitivity, evaluates the likelihood of occurrence of Species of Conservation Concern (SCC), and provides precautionary recommendations to ensure legislative compliance and biodiversity best practice.

## Study Area

RE281, Paapekuilfontein (~0.760 ha.), Struisbaai is situated on the coast in the southern section of Struisbaai in the Western Cape Province (E 20°01'52"; S 34°48'49") (Figure 1). The dominant vegetation type on the property consist of Southwester Strandveld with the rest comprising of Cape Seashore Vegetation (McDonald 2023).

My overall impression during the site visit was that the natural vegetation on the property is in a moderate transformed state. It is separated from the inland habitats by the R319 (Marine Drive).

The proposed new development at RE281 comprises the rezoning of the subdivided area to subdivisional area to create 7 erven and space for an access road (Figure 3).

## Methods

We followed the prescribed protocol for performing a Terrestrial Animal Site Sensitivity Verification Report according to the Government Gazette Notice 320 (Government Gazette 43110, 20 March 2020) and amended in Government Gazette Notice 3717 (Government Gazette 49028, 28 July 2023). We followed the SANBI (2020) species environmental assessment guidelines during the assessment.

This report's findings are based on:

- ❖ A desktop study to determine the presence of animal species of concern (as listed in Table 1) and other species at the study area; and
- ❖ 1 x Field site visit.

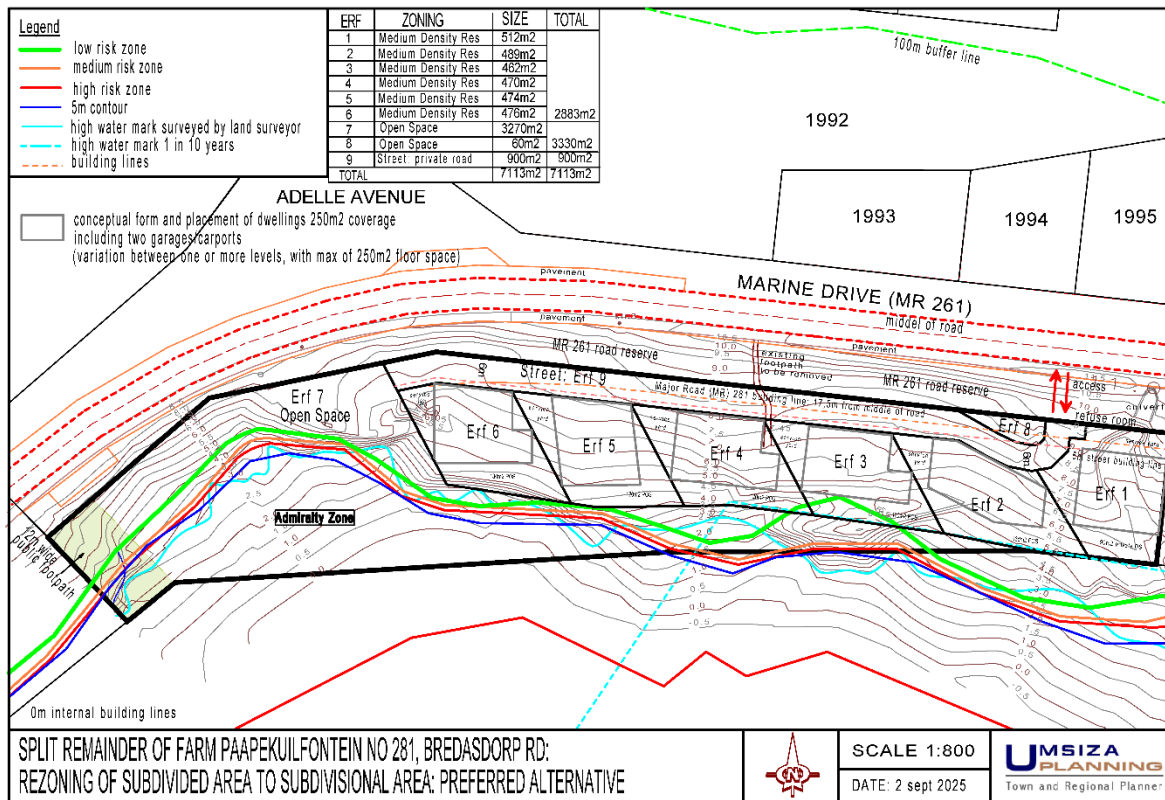


Figure 3: The preferred alternative of the proposed rezoning.

The desktop study included the use of iNaturalist and Global Biodiversity Information Framework (GBIF) records as well as reports, field guides and scientific literature. These records were used to determine the species recorded in the area and the presence of potential SCC, with particular emphasis on the SCC listed by the screening tool.

A site visit was performed on the 2<sup>nd</sup> of August 2025, where a diurnal (between 8h00 and 11h00) surveys was performed. 4 Trained observers conducted the field survey. During the site survey, species and signs of presence (sounds, tracks, scats etc), observed were recorded. Surveys consisted of meandering visual, acoustic surveys and point surveys performed in the proposed development site. Access to all the development areas were easy (it is less than 1 ha in size) and we covered the whole property on foot (Figure 4). The main purpose of the site visit was to confirm whether:

- ❖ any of the listed SCC were present in the proposed development area;
- ❖ whether the habitats at the proposed development site likely supports undetected individuals or populations of the SCC highlighted by the screening tool; and
- ❖ there are any SCC present at the site that were not highlighted by the initial screening.

To aid in record-keeping of the site and species observed, photographs were taken during the site visits.



Figure 4: A map indicating the point survey locations.

Table 2: The point survey site coordinates

| Survey Site | Coordinates            |
|-------------|------------------------|
| 1           | 34°48'49"S; 20°01'48"E |
| 2           | 34°48'48"S; 20°01'51"E |
| 3           | 34°48'48"S; 20°01'52"E |
| 4           | 34°48'49"S; 20°01'55"E |
| 5           | 34°48'48"S; 20°01'49"E |
| 6           | 34°48'47"S; 20°01'51"E |

### Setting the project area of influence (PAOI)

The development property is small (~0.760 ha). The PAOI was set considering main SCC we think are present on or close to the development footprint. This was based on recommended buffers for SCC (SANBI 2020) and WCDS expert knowledge.

### Conditions, limitations, and assumptions

The findings and recommendations of this report are based on WCDS best scientific and professional knowledge, literature and other data sources. WCDS reserve the right to modify

aspects of the report, including the recommendations and conclusions, if additional relevant information becomes available.

The conditions, e.g. weather and otherwise, during the assessment period could have a significant influence determining whether animal species will be found on site or not. An animal species absence during field assessments does not necessarily mean it is not present at assessment locations. At WCDS we use an evidence-based approach to provide the best possible assessment of species presence and potential impacts.

## Results

### *Field survey conditions*

A site visit was performed on the 2<sup>nd</sup> of August 2025, where a diurnal (between 8h00 and 11h00). Conditions were moderately warm with little wind which were ideal for faunal surveys.

### *Project area of influence (PAOI)*

The development property is small (~0.760 ha). The PAOI covers all the property as well as a reasonably large proportion outside of the property (Figure 5 and Table 3).

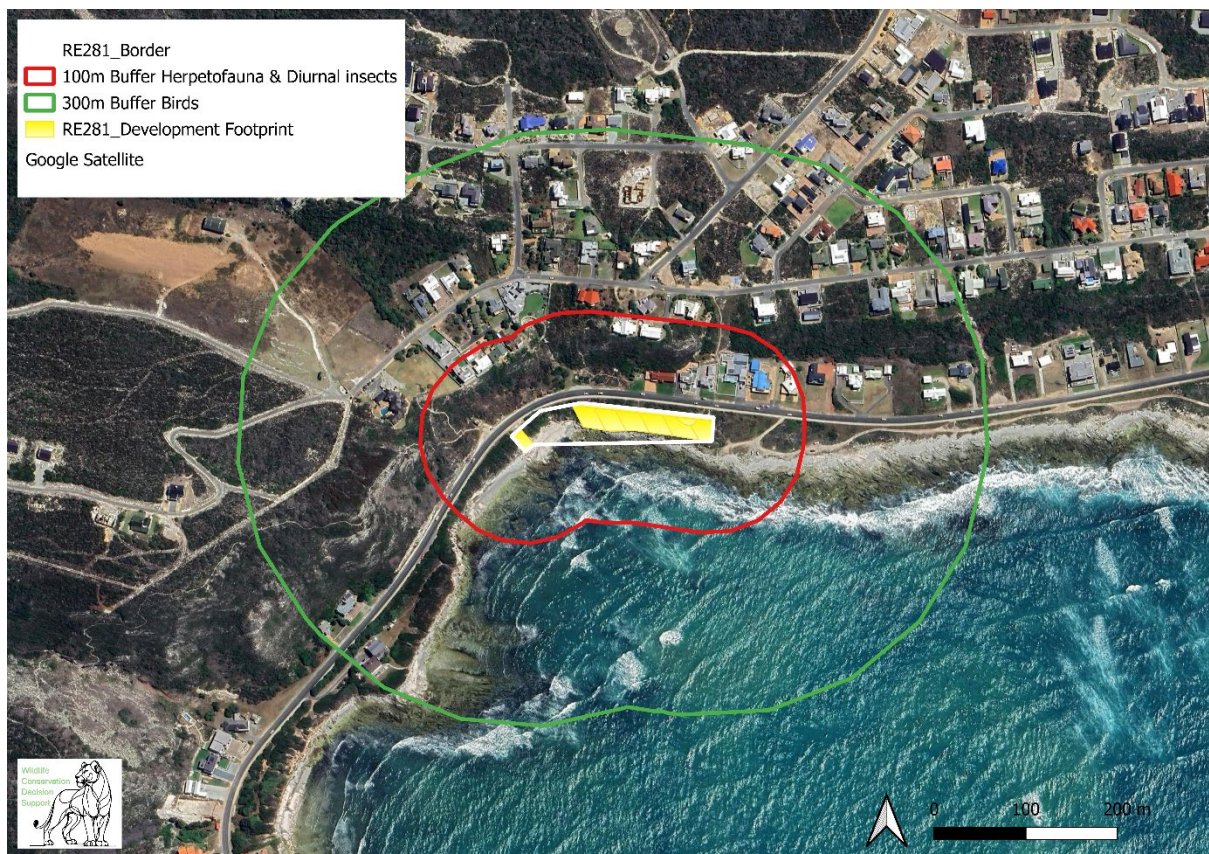


Figure 5: The PAOI was set considering main SCC we think are present on or close to the development footprint.

Table 3: The PAOI was set considering main SCC we think are present on or close to the development footprint.

| Species/Group                    | PAOI<br>Buffer size | Notes                         |
|----------------------------------|---------------------|-------------------------------|
| Raptors and Birds general        | 300 m               | Foraging and resting areas    |
| Diurnal insects and herpetofauna | 100 m               | Foraging and breeding habitat |

### **Habitat description.**

After screening the development site using Google Earth images and on-site verification, we did intensive searches in the PAOI of the proposed development site. We covered the whole site and adjacent natural areas on foot. Four habitat types were identified e.g. Strandveld, Seashore vegetation, Seep, and Sandy beach & rocky shores (Figure 6). All habitats showed disturbance, mainly from human activities (footpaths etc.) and occasional presence of alien vegetation.

#### **Strandveld**

The vegetation in this habitat is mainly Southwestern Strandveld, with a small area of Agulhas Limestone Fynbos at the western end (McDonald 2023) (Figure 7).

#### **Seashore vegetation**

The seashore vegetation occurs at the seashore, usually on beaches but also on waves-swept rocky coastlines (McDonald 2023)(Figure 8). This habitat is present on the fringes of the tidal influenced areas (Figure 6).

#### **Sandy beach & rocky shores**

This habitat is the zone between the sea and the terrestrial vegetated areas which are influenced by tides (Figure 6, 8 & 9).

#### **Seep habitat**

A seep habitat transects the Strandveld habitat in the central part of the property. It seems that it is not natural but rather influenced by the main road storm water infrastructure.



Figure 6: The four different habitat types relevant for fauna in the property.



Figure 7: A typical example of the strandveld habitat vegetation



Figure 8: An example of the seashore vegetation visible here at the edge of the sandy beach



Figure 9: An example of the rocky shore habitat at the site



Figure 10: The seep area that transect the Strandveld habitat type.

Table 4: Animal species and the habitats they were observed in during the field site visit

| Common name         | Scientific name                | Status | Seep | Strandveld | Seashore vegetation | Sandy beach & Rocky Shores |
|---------------------|--------------------------------|--------|------|------------|---------------------|----------------------------|
| <b>Birds</b>        |                                |        |      |            |                     |                            |
| Cape Wagtail        | <i>Motacilla capensis</i>      | LC     |      | X          | X                   |                            |
| Cape Weaver         | <i>Ploceus capensis</i>        | LC     |      | X          |                     |                            |
| Fork-tailed Drongo  | <i>Dicrurus adsimilis</i>      | LC     |      | X          |                     |                            |
| Laughing Dove       | <i>Spilopelia senegalensis</i> | LC     |      | X          |                     |                            |
| Reed Cormorant      | <i>Microcarbo africanus</i>    | LC     |      |            |                     | X                          |
| Kelp Gull           | <i>Larus dominicanus</i>       | LC     |      |            |                     | X                          |
| Rock Kestrel        | <i>Falco rupicolus</i>         | LC     |      | X          |                     |                            |
| Cape Bulbul         | <i>Pycnonotus capensis</i>     | LC     |      | X          |                     |                            |
| Cape Robin-Chat     | <i>Cossypha caffra</i>         | LC     |      | X          |                     |                            |
| Common Starling     | <i>Sturnus vulgaris</i>        | LC     |      | X          |                     |                            |
| Cape White-eye      | <i>Zosterops virens</i>        | LC     |      | X          |                     |                            |
| Cape Sparrow        | <i>Passer melanurus</i>        | LC     |      | X          |                     |                            |
| Zitting Cisticola   | <i>Cisticola juncidis</i>      | LC     |      | X          |                     |                            |
| Karoo Prinia        | <i>Prinia maculosa</i>         | LC     | X    | X          |                     |                            |
| Cape Cormorant      | <i>Phalacrocorax capensis</i>  | LC     |      |            |                     | X                          |
| Bar-throated Apalis | <i>Apalis thoracica</i>        | LC     |      | X          |                     |                            |

|                                 |                               |    |   |   |   |   |
|---------------------------------|-------------------------------|----|---|---|---|---|
| Greater Double-collared Sunbird | <i>Cinnyris afer</i>          | LC |   | X |   |   |
| Ring-necked Dove                | <i>Streptopelia capicola</i>  | LC |   | X |   |   |
| White-necked Raven              | <i>Corvus albicollis</i>      | LC |   | X |   |   |
| Common Starling                 | <i>Sturnus vulgaris</i>       | LC |   | X |   |   |
| <b>Reptiles</b>                 |                               |    |   |   |   |   |
| Ocellated Gecko                 | <i>Pachydactylus geitjie</i>  | LC |   | X | X | X |
| Marbled Leaf-toed Gecko         | <i>Afrogecko porphyreus</i>   | LC |   | X | X |   |
| <b>Amphibians</b>               |                               |    |   |   |   |   |
| Clicking Stream Frog            | <i>Strongylopus grayii</i>    | LC | X |   |   |   |
| <b>Mammals</b>                  |                               |    |   |   |   |   |
| Cape grysbok                    | <i>Raphicerus melanotis</i>   | LC |   | X |   |   |
| Bushbuck                        | <i>Tragelaphus sylvaticus</i> | LC |   | X |   | X |
| Cape clawless otter             | <i>Aonyx capensis</i>         | LC |   |   |   | X |
| Water mongoose                  | <i>Atilax paludinosus</i>     | LC |   | X |   |   |
| Cape grey mongoose              | <i>Galerella pulverulenta</i> | LC |   | X |   |   |
| Cape dune molerat               | <i>Bathergus suillus</i>      | LC |   | X |   |   |
| <b>Invertebrates</b>            |                               |    |   |   |   |   |
| Duineslak                       | <i>Theba pisana</i>           | -  |   | X |   |   |
| Barred Eggjarlet                | <i>Bombycomorpha bifascia</i> | -  |   | X | X |   |
| Scarab Beetle                   | <i>Family Scarabaeidae</i>    | -  |   | X |   |   |
| Amber Baboon                    |                               |    |   | X |   |   |
| Spider                          | <i>Harpactira cafreriana</i>  | -  |   |   |   |   |
| Pill Woodlouse                  | <i>Family Armadillidae</i>    | -  |   |   |   | X |
| Firefly                         | <i>Family Lampyridae</i>      | -  |   |   | X |   |

## Animal species of concern

A total of two animal species of concern was identified by the screening tool (Lornay Environmental Consulting 2023)(Table 2). One additional species was flagged by Cape Nature e.g. African Oystercatcher (*haematopus moquini*) and specifically sensitivity during the breeding season. The following section deals with the site's potential importance for these species and the probability of them being present in habitats in the development area.

### Southern Adder (*Bitis armata*)

#### Conservation Status

The Southern Adder (*Bitis armata*) is nationally assessed as Vulnerable (VU) B1ab(i,iii,iv,v)(Maritz and Turner 2023). This classification reflects its severely fragmented distribution, small range, and ongoing declines in extent of occurrence (EOO), area of occupancy (AOO), habitat quality, and subpopulation numbers (Maritz and Turner 2023). The species is considered extinct in the Cape Town area due to urban expansion.

- Extent of Occurrence (EOO): 17 770 km<sup>2</sup>
- Area of Occupancy (AOO): 2 140 km<sup>2</sup>

### Distribution and Population

This species has a small, patchy distribution on the south-west coastal margin of the Western Cape (Maritz and Turner 2023). It occurs as three disjunct subpopulations:

1. Northern – from West Coast National Park to approximately 20 km north of Cape Town.
2. Southeastern – Hermanus to De Hoop Nature Reserve.
3. A third historical subpopulation in the Cape Town area is locally extinct. The population is suspected to be in ongoing decline and is severely fragmented.

### Habitat and Ecology

*B. armata* inhabits coastal lowland Fynbos on sandy and rocky substrates, sometimes climbing into vegetation (Maritz and Turner 2023). It shelters under rock slabs between dense shrubs on coastal plains and is absent from mountainous terrain (Phelps 2010, Maritz and Turner 2023). Altitudinal range extends from sea level up to 300 m a.s.l. (Maritz and Turner 2023). This small-bodied, cryptic viper is an ambush predator, likely preying on small vertebrates such as lizards and amphibians (Maritz and Turner 2023).

### Threats

- **Habitat loss and degradation** from urbanisation, coastal infrastructure, and agriculture.
- **Invasive alien trees**, which alter vegetation structure and reduce suitable habitat.
- **Off-road vehicle disturbance** in coastal habitats.
- **Persecution** due to negative perceptions of snakes.
- **Pet trade**: the species is recorded in the trade, with some evidence of illegal collection. The proportion sourced from wild versus captive-bred populations is unknown.

### Likelihood of Occurrence RE281

The species' known southeastern subpopulation lies within the broader Struisbaai region. Photographic records confirm its presence in Struisbaai (e.g., image captioned "*Bitis armata*, Struisbaai, Western Cape province" in (Tolley *et al.* 2023)). In addition, multiple research grade iNaturalist records exist for the Struisbaai area, providing contemporary, geo-referenced evidence of its occurrence. Suitable habitat, coastal lowland Fynbos on sandy or rocky substrate, occurs in the Struisbaai area, supporting the likelihood of local presence.

**However, we consider the local on-site habitat to be only marginally suitable for *Bitis armata* due to the direct influence of sea-spray moisture, localised microclimatic conditions, dense and moist vegetation, and the absence of rock slabs that could provide suitable shelter. Despite intensive surveys, the species was not detected at RE281.**

### Yellow-winged Agile Grasshopper (*Aneuryphymus montanus*)

#### Conservation Status

The Yellow-winged Agile Grasshopper (*Aneuryphymus montanus*) is listed as Vulnerable under the IUCN Red List criteria, reflecting a combination of restricted and fragmented distribution, habitat specialisation, and ongoing environmental pressures (IUCN SSC Grasshopper Specialist Group, 2016). Although its estimated Extent of Occurrence (EOO) is relatively large (~170,000 km<sup>2</sup>), its Area of Occupancy (AOO) is much smaller due to its highly patchy and montane

distribution pattern (Kinvig 2005). South Africa is home to the only known populations of the species, and it is considered a Southern African endemic.

#### Distribution and Population

*A. montanus* is recorded primarily from Western and Eastern Cape mountain ranges, including sites near Clanwilliam, Graafwater, Lambert's Bay, De Rust, Bot River, Suurbraak, Kogelberg, and Joubertinia (Brown 1960, Kinvig 2005). These records are generally associated with elevated, rocky slopes in montane fynbos habitats.

In a national conservation assessment of grasshoppers, Kinvig (2005) confirmed that *A. montanus* has a strongly disjunct and localised distribution pattern. While its EOO spans a broad area, this is misleading in conservation terms because the species only occurs in specific microhabitat conditions within a narrow elevational and ecological band. Populations are likely to be small, isolated, and vulnerable to local extirpation.

#### Habitat and Ecology

*A. montanus* is strongly tied to rocky, montane fynbos habitats, particularly on south-facing, cool slopes with dense, sclerophyllous shrub cover and patches of exposed rock. Brown (1960) described the species as occurring "amongst partly burnt stands of evergreen sclerophyll in rocky foothills," suggesting an affinity for early successional fynbos following fire. These areas typically have a mix of open ground for movement and complex vegetation for cover and feeding.

The species is terrestrial and strong jumping, rather than a capable flier, and likely exhibits limited dispersal ability. Kinvig (2005) noted that individuals were not readily collected, even in seemingly suitable areas, indicating that the species may be inherently rare or cryptic. Its dependence on post-fire vegetation dynamics, cooler microclimates, and geological substrates contributes to its vulnerability to habitat alteration.

#### Threats

Key threats to *A. montanus* include:

- **Habitat transformation** due to agriculture, urban expansion, and plantation forestry;
- **Alteration of fire regimes**, which can either eliminate necessary early-successional stages or create overly frequent burns that degrade recovery;
- **Invasive alien vegetation**, which alters vegetation structure and reduces habitat quality;
- **Climate change**, which threatens montane fynbos by shifting biome boundaries upward and reducing habitat availability;
- **Fragmentation**, which increases the likelihood of local extinction due to isolation and limits recolonisation potential (Kinvig, 2005).

Because the species does not occur in all available fynbos areas, it is considered a microhabitat specialist, and unsuitable areas may act as barriers to movement even within continuous vegetation zones.

#### Likelihood of Occurrence on ER281

*Aneuryphymus montanus* was not observed during the field visit. No individuals were observed or collected, and no potential microhabitats resembling its known preferences were identified.

The site is characterised by coastal lowland conditions and lacks the elevation, and cool montane microclimates typically associated with *A. montanus* localities (Kinvig, 2005; Brown, 1960).

While some *A. montanus* records have occurred outside of formally protected areas, all known localities are associated with montane or foothill fynbos in elevated inland terrain. ER281, by contrast, lies within a coastal, non-montane vegetation unit and does not fall within or adjacent to the known distribution of the species.

**Based on the absence of detections, lack of suitable microhabitat, and the site's location well outside the typical elevational and ecological range of the species, the likelihood of occurrence of *A. montanus* on RE281 is considered negligible. No further surveys or mitigation are warranted for this species in relation to proposed development.**

#### *African Black Oystercatcher (Haematopus moquini)*

##### Conservation Status

The African Black Oystercatcher is endemic to southern Africa. It was previously listed as *Near Threatened* but, due to population increases and range expansion, has been reassessed as Least Concern on the IUCN Red List (Underhill 2014, Brown et al. 2019). The global population in the early 2000s was estimated at ~6,670 individuals, with numbers continuing to increase (Underhill 2014, Brown et al. 2019). The species is legally protected in South Africa and benefits from several targeted conservation measures, including beach vehicle restrictions and predator management (Underhill 2014).

##### Distribution and Population

Breeding distribution extends from Lüderitz in southern Namibia along the South African coastline to at least the Mbashe River, Eastern Cape, with occasional breeding recorded as far east as southern KwaZulu-Natal (Underhill 2014). Non-breeding range extends north to Angola (west coast) and Mozambique (east coast). Juveniles disperse either long distances to nursery areas in Namibia and Angola or remain within ~150 km of their natal site (Underhill 2014). Highest breeding densities are on offshore islands and protected stretches of mainland coastline with minimal disturbance.

##### Habitat, Ecology, and Breeding Biology

The species is strictly coastal, occupying rocky shores, sandy beaches, mixed rocky-sandy shorelines, estuaries, and coastal lagoons. It avoids high-energy rocky shores with narrow intertidal zones and cliffed coasts. Foraging is primarily intertidal, targeting limpets (*Scutellastra cochlear*), the invasive Mediterranean mussel (*Mytilus galloprovincialis*), and other bivalves, gastropods, and crustaceans.

##### Breeding Season

Breeding occurs mainly from October to March, peaking in December–January (Parsons

2006). Timing is linked to local tidal and prey availability patterns. The period overlaps with peak coastal recreational activity, creating a high risk of disturbance (Parsons 2006).

### **Breeding Site Selection**

Nests are placed just above the spring high tide line, often in open sandy areas, gravel patches, or among low vegetation, with clear lines of sight to detect predators (Parsons 2006). On sandy shores, nests are shallow scrapes lined with small shells, pebbles, or drift material. On mixed rocky–sandy shores, nests may be located close to rock outcrops that provide refuge for chicks. Sites are generally within 50 m of suitable intertidal feeding areas, minimising energy costs for adults during chick provisioning (Parsons 2006). On mainland beaches, suitability is strongly influenced by beach width. Breeding pairs generally select sections where the distance from the spring high tide line to the vegetation line or dunes is greater than 20 m, providing elevated sites above the reach of storm surges and sufficient space to reduce human and predator disturbance. Narrower beaches (<20 m) are less likely to be used unless human disturbance is very low (Parsons 2006).

### **Sensitivity to Disturbance**

The species is highly sensitive to human presence during breeding (Parsons 2006, Underhill 2014):

- Adults flush easily from nests when approached, exposing eggs/chicks to thermal stress or predation.
- Repeated disturbance can cause nest abandonment.
- Chicks rely on camouflage and crouching behaviour; trampling risk is high in busy beach areas.
- Off-road vehicles and uncontrolled dogs are particularly damaging, causing direct mortality and nest destruction.

### **Threats**

- **Human disturbance** during breeding from beach recreation, vehicles, and dogs.
- **Predation** by Kelp Gulls (*Larus dominicanus*), Pied Crows (*Corvus albus*), and domestic animals.
- **Coastal development** reducing undisturbed nesting habitat.
- **Storm surges and high tides** washing away nests during spring tides.
- **Climate change** increasing sand temperatures, causing embryo mortality.

### **Likelihood of Occurrence in Struisbaai and at RE281**

Struisbaai has extensive sandy and mixed rocky–sandy beaches suitable for breeding and feeding. Regional monitoring and citizen science records confirm regular occurrence. Given the presence of suitable habitat and the proximity to known breeding territories along the southern Cape coast, it is highly likely that *H. moquini* breeds locally. The high level of beach use in the area likely deters breeding along the town stretch of coast.

**The stretch of beach at RE281 is ~30 m at its widest with an estimated <3m outside of the tidal zone. The rocky tidal zones are depauperate of suitable prey species for *H. moquini*. The area in the vicinity is therefore not suitable as breeding area for *H. moquini*.**

## Terrestrial animal compliance statement

The DFFE screening tool identified the study area as having a ‘**Medium**’ sensitivity for the animal species theme, due to the potential presence of two species of conservation concern. Based on my desktop assessment and evidence from the site visit the site sensitivity should be considered ‘**Low**’ because:

- i. We consider the local on-site habitat to be only marginally suitable for *Bitis armata* due to the direct influence of sea-spray moisture, localised microclimatic conditions, dense and moist vegetation, and the absence of rock slabs that could provide suitable shelter. Despite intensive surveys, the species was not detected at RE281. The likelihood of the species occurring on site is considered to be low. The potential impact is therefore classified as ‘**Low**’.
- ii. Based on the absence of detections, lack of suitable microhabitat, and the site’s location well outside the typical elevational and ecological range of the species, the likelihood of occurrence of *A. montanus* on RE281 is considered negligible. No further surveys or mitigation are warranted for this species in relation to proposed development. The proposed development and potential impact are therefore classified as ‘**Very low**’.
- iii. The stretch of beach at RE281 is ~30 m at its widest with an estimated <3m outside of the tidal zone. The rocky tidal zones are depauperate of suitable prey species for *H. moquini*. The area in the vicinity is therefore not suitable as breeding area for *H. moquini*. and potential impact is therefore classified as ‘**Very low**’.

## General recommendations

Although the site is assessed as having low terrestrial animal sensitivity and no Species of Conservation Concern are expected to be significantly impacted, the following precautionary measures are recommended to ensure responsible environmental management and compliance with best-practice guidelines:

- i. **Construction-phase management:** Restrict all construction activities to daylight hours to minimise disturbance to nocturnal fauna. Limit vehicle and machinery movement to designated access routes and work areas to avoid unnecessary habitat disturbance. Store building materials on raised platforms or pallets to prevent their use as refuges by snakes and small mammals. No off-road driving should occur on beaches, dunes, or other sensitive habitats.
- ii. **Wildlife protection:** Enforce a no-harm policy for all wildlife encountered on-site, particularly reptiles. Any necessary relocation must be carried out by a suitably qualified and permitted handler. Prohibit domestic animals (e.g., dogs and cats) from entering the site during construction to reduce predation risk to native fauna. All site personnel should receive a brief induction on local fauna and the importance of species protection.
- iii. **Breeding season sensitivity:** During the African Black Oystercatcher (*Haematopus moquini*) breeding season (October–March), survey the immediate project footprint and adjacent beaches for active nests. If nests are present, mark and maintain a

minimum 50 m no-go buffer until chicks have fledged, in consultation with CapeNature.

- iv. **Waste management:** Ensure all waste is stored in secure containers and regularly removed from the site to prevent attracting scavengers or predators. Avoid leaving food scraps or other organic waste exposed.

These recommendations align with the mitigation hierarchy under the Gazetted Terrestrial Animal Species Protocol (2020) and the Species Environmental Assessment Guidelines (2022), ensuring that potential risks to fauna are minimised even where baseline sensitivity is low.

## Conclusion

The faunal assessment for RE281, Struisbaai, indicates that the site is of low terrestrial animal sensitivity in terms of the Gazetted Terrestrial Animal Species Protocol (2020). Field surveys and desktop analyses confirm that no Species of Conservation Concern (SCC) are likely to be significantly impacted by the proposed development, although the surrounding coastal environment supports important habitats for species such as the African Black Oystercatcher (*Haematopus moquini*) and several mammal and bird species. The development footprint does not overlap with critical breeding or foraging sites, and suitable habitat within the site is limited. Nevertheless, precautionary measures have been recommended to minimise disturbance to local fauna, particularly during sensitive breeding periods. Implementation of these measures, together with ongoing environmental management during construction, will ensure compliance with legislative requirements and alignment with biodiversity best-practice guidelines.

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## Appendix 1

CV and SACNASP Certificate of Prof JA Venter



## Curriculum Vitae

# Jan Adriaan Venter



### 1. Personal information

|                                                                                              |                                                          |                                                                                                        |                                                                                                                                                            |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Full name:</b>                                                                            | Jan Adriaan Venter                                       | <b>Home address:</b>                                                                                   | 8 Steve Landman Crescent,<br>Loeriepark, George, 6529, South Africa                                                                                        |
| <b>Age:</b>                                                                                  | 53                                                       |                                                                                                        |                                                                                                                                                            |
| <b>Gender:</b>                                                                               | Male                                                     |                                                                                                        |                                                                                                                                                            |
| <b>Nationality:</b>                                                                          | South African                                            | <b>E-mail:</b>                                                                                         | NMU: <a href="mailto:JanVenter@mandela.ac.za">JanVenter@mandela.ac.za</a><br>WildCDS: <a href="mailto:janventer@wildcds.earth">janventer@wildcds.earth</a> |
| <b>Driver's license:</b>                                                                     | Code EB                                                  | <b>Cell number:</b>                                                                                    | +27 (0) 82 41 61096                                                                                                                                        |
| <b>Language:</b>                                                                             | Afrikaans (1 <sup>st</sup> ), English (2 <sup>nd</sup> ) | <b>Telephone nr:</b>                                                                                   | +27 (0) 44 801 5042                                                                                                                                        |
|  @JanBuffel |                                                          |  Conservation@Mandela |                                                                                                                                                            |
|                                                                                              |                                                          |  Jan Adriaan Venter |                                                                                                                                                            |
| Web page: <a href="#">Wildlife Conservation Decision Support</a>                             |                                                          | Web page: <a href="#">Wildlife Ecology Lab</a>                                                         |                                                                                                                                                            |
|  Scopus     |                                                          |  Google Scholar      |                                                                                                                                                            |

### 2. Tertiary qualifications

| Degree                                          | Institution                            | Research theme or modules                                                                                                                                             | Time period |
|-------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Doctor of Philosophy: Biology                   | University of Kwazulu-Natal            | Intrinsic and extrinsic influences on African large herbivore assemblages and implications for their conservation.                                                    | 2009 – 2014 |
| Master of Technology: Nature Conservation       | Nelson Mandela Metropolitan University | The feeding ecology of buffalo ( <i>Syncerus caffer</i> ) on Doornkloof Nature Reserve, Northern Cape, South Africa                                                   | 2002-2006   |
| Baccalaureus of Technology: Nature Conservation | Technikon Port Elizabeth               | Plant studies IV; Research methodology; Fresh water management IV; Conservation management I; Principles of management I; Resource management IV                      | 1998-1999   |
| National Diploma: Nature Conservation           | Technikon South Africa                 | Plant studies I, II and III; Animal studies I, II and III; Conservation Ecology I, II and III; Resource Management I, II and III; Conservation Communication I and II | 1993-1996   |

## 3. Work experience

| Institution                                                                         | Institution details                                                                                                             | Job description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Time period                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Full time positions:</b>                                                         |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                           |
|    | Department of Conservation Management, Faculty of Science, Nelson Mandela University, George Campus, Madiba Drive, George, 6530 | <i>Associate Professor</i><br><br><i>Head of Department: Conservation Management</i><br><br><i>Program Coordinator: Nature Conservation and Game Ranch Management</i><br><br><i>Senior Lecturer</i><br><br><i>Lecturer</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 January 2021 – current date<br><br>1 January 2021 – 31 December 2023<br><br>1 June 2017- 31 December 2020<br><br>1 January 2018 – 31 December 2020<br><br>1 June 2015- 31 December 2017 |
|    | Scientific Section, 6 St Marks Street, Southernwood, East London, South Africa, 5201. Tel: 043 7054400                          | <i>Specialist Ecologist</i><br><i>Area of responsibility:</i> Eastern Cape Provincial Protected areas as well as National Marine Protected Areas<br><i>Responsible for:</i> Research, monitoring and specialist decision support on biodiversity conservation, protected area expansion and wildlife management. Manager of the Marine Scientific Unit (1 x Marine ecologist and 1 x Marine Technician)<br><br><i>Ecologist</i><br><i>Area of responsibility:</i> Wild Coast (Mkambati, Silaka, Hluleka & Dwesa-Cwebe, East London Coast Nature Reserves; Pondoland, Hluleka & Dwesa-Cwebe Marine Protected Areas) also Baviaanskloof Mega Reserve<br><i>Responsible for:</i> Facilitating and conducting research, biological monitoring as well as decision support to conservation management | 1 November 2011 – 31 May 2015<br><br>1 <sup>st</sup> March 2006 – 31 October 2011                                                                                                         |
|  | School of Agricultural and Environmental Sciences, University of Limpopo, Private Bag X1106, Sovenga, 0727.                     | <i>Senior Technician</i><br><i>Area of responsibility:</i> Aquaculture Research Unit<br><i>Responsible for:</i> Technical and research support for the research unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 <sup>st</sup> May 2004 – 28 <sup>th</sup> February 2006                                                                                                                                 |

|                                                                                                                                                |                                                                        |                                                                                                                                                                                                                      |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <br>Department: Environmental Affairs and Nature Conservation | Doornkloof Nature Reserve,<br>PO Box 94, Colesberg, 9795               | <i>Protected Area Manager</i><br><i>Area of responsibility:</i> Doornkloof Nature Reserve<br><i>Responsible for:</i> General, conservation and wildlife management of the nature reserve                             | 1 <sup>st</sup> September 1998 – 28 <sup>th</sup> April 2004 |
|                                                                                                                                                | Namakwa District Office,<br>Private Bag X6, Calvinia, 8190             | <i>District Nature Conservation Officer</i><br><i>Area of responsibility:</i> Namakwa-Hantam District<br><i>Responsible for:</i> Law enforcement, environmental education, conservation advice and community liaison | 6 <sup>th</sup> January 1997 – 30 <sup>th</sup> August 1998  |
| <b>Part-time/Contract positions:</b><br>University of Pretoria<br><br>North-West Parks Board<br><br>Cape Nature Conservation                   | Centre for Wildlife Management, University of Pretoria, Pretoria, 0002 | <i>Technician</i><br><i>Area of responsibility:</i> Centre for Wildlife Management<br><i>Responsible for:</i> Technical and research support for the research unit                                                   | 19 <sup>th</sup> June 1996 – 31 <sup>st</sup> December 1996  |
|                                                                                                                                                | Pilanesberg National Park, PO Box 1201, Mogwase, 0302                  | <i>Volunteer</i><br><i>Area of responsibility:</i> Pilanesberg National Park<br><i>Responsible for:</i> Assisted field ecologist with data collection and field work                                                 | 15 <sup>th</sup> May 1996 – 17 <sup>th</sup> June 1996       |
|                                                                                                                                                | Outeniqua Nature Reserve, Private Bag X6517, George, 6530              | <i>Student Nature Conservator</i><br><i>Area of responsibility:</i> Outeniqua Nature Reserve<br><i>Responsible for:</i> Assisted reserve manager with conservation management and field work                         | 15 <sup>th</sup> May 1995 – 6 <sup>th</sup> May 1996         |

#### 4. Ratings & Impacts

| Agency                                     | Rating       |
|--------------------------------------------|--------------|
| South African National Research Foundation | C3 (Rating)  |
| Google Scholar                             | 19 (h-index) |
| Scopus                                     | 15 (h-index) |

#### 5. Scientific output

| Peer reviewed Journal Publications (shading indicates publications by postgraduate students and post-doctoral researchers under my supervision)                                                                                                                                                                                                                 |  |
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| 1) DAVIS, RS., GOPALAWAMY, AM., ELIOT, NB., VENTER, JA. (2025) Using spatial capture-recapture models to inform lion ( <i>Panthera leo</i> ) management in fenced protected areas. The Journal of Wildlife Management <a href="https://doi.org/10.1002/jwmg.70085">https://doi.org/10.1002/jwmg.70085</a>                                                       |  |
| 2) VAN BERGEN, G., COETZEE, A., VENTER, J.A., ROETS, F, SWART, RC. (2025) Small forest patches support greater diversity of dung and carrion beetles compared to large continuous forest in South Africa, during Winter months. African Zoology 60(3) <a href="https://doi.org/10.1080/15627020.2025.2543237">https://doi.org/10.1080/15627020.2025.2543237</a> |  |
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| 5) MALULEKE, A., MARNEWICK, K, DRUCE, D, VENTER, JA. (In press) Spotted hyaena ( <i>Crocuta crocuta</i> ) recolonisation:                                                                                                                                                                                                                                       |  |

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| Documenting a naturally recolonised spotted hyaena population in Welgevonden Game Reserve. African Journal of Wildlife Research.                                                                                                                                                                                                                                                                                                                                                     |
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| 9) OVERTON, E.K., DAVIS, R.S., PRUGNOLLE, F., ROUGERON, V., HONNIBAL, T., SIEVERT, O., VENTER, J.A. 2025 Carrion in Bomas: Multiple Observations of Cheetah ( <i>Acinonyx jubatus</i> ) Scavenging Events and Potential Causes in Managed Populations. Ecology and Evolution. <a href="https://doi.org/10.1002/ece3.70776">https://doi.org/10.1002/ece3.70776</a>                                                                                                                    |
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| 17) BERNARD, A., GUERBOIS, C., VENTER, J.A., FRITZ, H. (2024) Comparing local ecological knowledge with camera trap data to study mammal occurrence in anthropogenic landscapes of the Garden Route Biosphere Reserve. Conservation Science and Practice. <a href="https://doi.org/10.1111/csp2.13101">https://doi.org/10.1111/csp2.13101</a>                                                                                                                                        |
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| 23) DAYA, J., FRITZ, H., VENTER, J.A. (2024) Diet preference of black rhinoceros ( <i>Diceros bicornis</i> ) at Welgevonden Game Reserve across different seasons. African Journal of Range and Forage Science. <a href="https://doi.org/10.2989/10220119.2023.2276840">https://doi.org/10.2989/10220119.2023.2276840</a>                                                                                                                                                            |
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| 25) STRYDOM, Z., GREMILLET, D., FRITZ, H., VENTER, J.A., COLLET, J., KATO, A., PICHEGRU, L. (2023). Age and sex-specific foraging movements and energetics in an endangered monomorphic seabird. Marine Biology 138                                                                                                                                                                                                                                                                  |

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| <b>Technical Reports</b>                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Presentations at conferences and symposia</b> (International conferences are shaded)                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1) VENTER, JA, DAVIS, R., RYAN, R., BALL, I., ELLIOT, N., GOPALASWAMY, A., GROOM, R., WATERMEYER, J., TZITZIKA, I. 2025 Landscapes, and Evidence: A Multi-Site Evaluation of Robust Monitoring for African Carnivore Conservation. International Wildlife Congress, 1-4 September 2025, Lillehammer, Norway.                                                                                                                                                                                  |
| 2) HONIBALL, T., VALEIX, M., FRITZ, H., SWANEPOEL, L. & VENTER, J.A. 2025. Rather the enemy you know: Territorial behaviour of spotted hyaenas in fenced protected areas. IX European Congress of Mammalogy (ECM 9), 31 March - 4 April 2025, Patras, Greece.                                                                                                                                                                                                                                 |
| 3) VENTER, J.A., PARDO, L, OSNER, N.R., HUEBNER, S., NICVERT, L., SWANEPOEL, L., PEEL, M., SOMERS, M., KEITH, M., FRITZ, H. 2023 Running a large-scale, long-term camera trap monitoring project for conservation in Africa, the SnapshotSafari experience. 13th International Mammalogical Congress, Anchorage, Alaska, USA                                                                                                                                                                  |
| 4) HONIBALL, T., VALEIX, M., FRITZ, H., SWANEPOEL, L. & VENTER, J.A. 2023 The Human-Wildlife Landscape: Effects of Fences as a Conservation Management Tool, 13th International Mammalogical Congress, Anchorage, Alaska, USA                                                                                                                                                                                                                                                                 |
| 5) VENTER, J.A. & BETTINGS, I. (2022) Using a spatially explicit capture-recapture model to investigate the demography and spatial dynamics of lion prides in Pilanesberg National Park. 2 <sup>nd</sup> Northwest Provincial Annual Biodiversity Research Symposium, Rustenburg, South Africa.                                                                                                                                                                                               |
| 6) VENTER, J.A. & SWARTZ, Y. (2019) Insights into past and present behaviour and impacts of a fast-growing elephant population in Madikwe Game Reserve. 1 <sup>st</sup> North West Provincial Annual Biodiversity Research Symposium, Cookes Lake, Mahikeng, South Africa.                                                                                                                                                                                                                    |
| 7) VENTER, JA, BROOKE, C., MAREAN, C., FRITZ, H. & HELM, C. 2019. Conceptual reconstruction of Late Pleistocene large mammal assemblages of the Palaeo-Agulhas Plain reveals resilience to climate change but vulnerability to modern humans. 8 <sup>th</sup> European Congress of Mammalogy, Warsaw, Poland.                                                                                                                                                                                 |
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| 9) VENTER, JA, BROOKE, C., MAREAN, C., FRITZ, H. & HELM, C. 2019. Conceptual reconstruction of large mammal communities on the Palaeo-Aghulas Plain. Annual Meeting & Centennial celebration of the American Society of Mammalogists, Hyatt Regency Washington on Capitol Hill, Washington DC.                                                                                                                                                                                                |
| 10) VENTER, JA., VERMEULEN, MM., PACKER, C., SLOTOW, R., DOWNS, D., SOMERS, MJ., PEEL, M., SWANEPOEL, L., MGQATSA, N., FRITZ, H., WILLOWS-MUNRO, S., KEITH, M., PARKER, D., LE ROUX, A. 2018. Snapshot Safari – South Africa: Contemporary applications of camera traps to monitor mammal communities in South African protected areas. Joint SANBI Biodiversity Information Management & Foundational Biodiversity Information Programme Forum, Cape St Francis, Eastern Cape, South Africa. |
| 11) VENTER, J.A., PRINS, H.H.T., MASHANOVA, A., & SLOTOW, R., 2017. Ungulates rely less on visual cues, but more on adapting movement behaviour, when searching for forage, 12th International Mammalogical Congress, Perth, Western Australia.                                                                                                                                                                                                                                               |
| 12) VENTER, J.A., MARTENS, F.R., PFEIFFER, M.B., DOWNS, C.T. 2017. Cape vultures and wind turbines: Between a rock and a hard place. Southern African Wildlife Management Association Symposium: Wildlife management in the face of global change, Goudini, Western Cape Province, South Africa                                                                                                                                                                                               |

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| 15) VENTER, J.A., PRINS, H.H.T., BALFOUR, D.A., SLOTOW, R. 2013. Reconstructing grazer assemblages for protected area restoration in South Africa. 11 <sup>th</sup> International Mammalogical Congress, Queens University of Belfast, Belfast, Northern-Ireland.                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                            |
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| 19) VENTER, J.A., 2005. The feeding ecology of Cape buffalo on Doornkloof Nature Reserve, Northern Cape Province. Southern African Wildlife Management Association Symposium: Wildlife Management – A conservation or economic Incentive, Magoebaskloof, Limpopo Province South Africa.                                                                                                       |                                                                                                                                                                                                                                                                                                                                                            |
| 20) VENTER, J.A., HARLEY, V. & MALATJI, M.B. 2004. Game counts on Northern Cape Provincial Nature Reserves: Recommendations for future management. Southern African Wildlife Management Association Symposium: Innovations in Managing Wildlife Resources. Kathu, Northern Cape, South Africa.                                                                                                |                                                                                                                                                                                                                                                                                                                                                            |
| 21) VENTER, J.A., 2001. The Karoo habitat of the Blue Crane ( <i>Anthropoides paradiseus</i> ). The 13th South African Crane Working Group Workshop and the Southern African Strategy Meeting, South African Crane Working Group. Howick, Kwazulu-Natal, South Africa.                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                            |
| <b>Poster presentations</b> (International conferences are shaded)                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            |
| 1)                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                            |
| 2) VENTER, J.A. 2011. The value of science to improve conservation management effectiveness in marine protected areas. World Marine Biodiversity Conference 2011, Aberdeen, Scotland. (Digital object presentation)                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                            |
| 3) VENTER, J.A., FOUCHE, P. & VLOK, W. 2010. The current distribution of <i>Opsaridium peringueyi</i> in South Africa: Is there reason for concern? 8th Annual Science Networking Meeting, Kruger National Park, Skukuza, Mpumalanga, South Africa.                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Grant funding</b>                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                            |
| National Research Foundation<br>Bill Branch Memorial Grant<br>Oppenheimer Trust<br>Ernest and Ethel Eriksen Trust<br>Copenhagen Zoo<br>Shangani Ranch<br>Amarula Elephant Fund<br>The Elephant Managers Association<br>The Palaeontological Scientific Trust<br>Fynbos Trust<br>Grootbos Foundation<br>Fairfield Fund<br>Dormehl Cunningham Scholarship Funding<br>Cape Leopard Trust         | Society for Conservation Biology<br>National Geographic Society<br>Forestry CETA<br>Rufford Foundation<br>Templeton Foundation<br>Waitt Grants Program<br>US National Science Foundation<br>South African Water Research Commission<br>Harry and Anette Swartz Foundation<br>Lion Recovery Fund<br>Tswalu Foundation<br>Madikwe Wildlife Trust<br>Panthera |
| <b>Review of journal manuscripts</b>                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                            |
| African Journal of Wildlife Research, African Journal of Marine Research, African Zoology, African Ecology, International Journal of Marine Science, Environmental Monitoring and Assessment, Ecological Applications, Acta Theriologica, Ecological Research, International Journal of Biodiversity and Conservation, PeerJ, Ecological Informatics, Mammal Research, Urban Forestry & Urban |                                                                                                                                                                                                                                                                                                                                                            |

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| Greening, Journal of Arid Environments, Biodiversity and Conservation, Journal of Ornithology, Transportation Research Part D: Transport and Environment, Remote Sensing in Ecology and Conservation, Mammalia, Ecological Monographs, Kudu, Global Ecology and Conservation |                                                                                                                                                                                   |                                                                                                                                                        |                                      |
| <b>Research reviews or supervisory panels</b>                                                                                                                                                                                                                                |                                                                                                                                                                                   |                                                                                                                                                        |                                      |
| National Research Foundation                                                                                                                                                                                                                                                 | NRF Researcher Rating Review                                                                                                                                                      |                                                                                                                                                        | 2020 (Reviewer)                      |
| National Research Foundation                                                                                                                                                                                                                                                 | Postdoctoral, Travel, General and International Research Grants Virtual Peer Review Panel                                                                                         |                                                                                                                                                        | 2020 (Review Panel)                  |
| National Research Foundation                                                                                                                                                                                                                                                 | Postgraduate Bursaries/ Travel Grants Virtual Peer Review Panel                                                                                                                   |                                                                                                                                                        | 2019 (Review Panel)                  |
| National Research Foundation                                                                                                                                                                                                                                                 | Physiological plasticity of water-dependent antelope                                                                                                                              |                                                                                                                                                        | 2019 (Reviewer)                      |
| National Research Foundation                                                                                                                                                                                                                                                 | Mechanisms of resource selection and space use in a recovering rare antelope population                                                                                           |                                                                                                                                                        | 2018 (Reviewer)                      |
| Water Research Commission                                                                                                                                                                                                                                                    | WRC Project K5/2337 - Assessing the effect of global climate change on indigenous and alien fish in the Cape Floristic Region                                                     |                                                                                                                                                        | 2014-2017 (supervisory panel)        |
| Water Research Commission                                                                                                                                                                                                                                                    | WRC Project K5/2039 - To understand the unintended spread and impact of alien and invasive fish species in order to develop mitigation and prevention guidelines.                 |                                                                                                                                                        | 2012-2014 (supervisory panel)        |
| Water Research Commission                                                                                                                                                                                                                                                    | WRC Project K5/2187 – The resilience of South Africa's estuaries to future water resource development based on a provisional ecological classification of these systems.          |                                                                                                                                                        | 2012-2014 (supervisory panel)        |
| Water Research Commission                                                                                                                                                                                                                                                    | WRC Project K5/2261 - Evaluating fish and macro-invertebrate recovery rates in the Rondegat river, Western Cape, after river rehabilitation by alien fish removal using rotenone. |                                                                                                                                                        | 2013-2016 (supervisory panel)        |
| <b>Student supervision</b>                                                                                                                                                                                                                                                   |                                                                                                                                                                                   |                                                                                                                                                        |                                      |
| <b>BSc Hon/BTech</b>                                                                                                                                                                                                                                                         |                                                                                                                                                                                   |                                                                                                                                                        |                                      |
| 1) M. Mbiko                                                                                                                                                                                                                                                                  | Honours degree (Zoology), Walter Sisulu University, Co-supervisor                                                                                                                 | The study of dietary niche separation for ungulates in Mkambati Nature Reserve, using the stable carbon isotopes                                       | Completed (2014)                     |
| 2) E. Jones                                                                                                                                                                                                                                                                  | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | Amphibians and Vegetation as indicators of Conservation Value of Wetlands in an Anthropogenically Impacted Landscape                                   | Completed (2016)<br><i>Cum Laude</i> |
| 3) K. Green                                                                                                                                                                                                                                                                  | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | Variables affecting mammal species rate of capture as evaluated by camera traps on Tswalu Kalahari Reserve                                             | Completed (2016)                     |
| 4) B White                                                                                                                                                                                                                                                                   | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | Water Bird Counts Along the Klein Brak River: A Study on the Precision of Citizen Science Counts                                                       | Completed (2016)                     |
| 5) P Rossouw                                                                                                                                                                                                                                                                 | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | Herpetological biodiversity in areas adjacent to the Wilderness section of the Garden Route National Park                                              | Completed (2016)                     |
| 6) S. Schimmel                                                                                                                                                                                                                                                               | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | Mammal diversity and density in transformed and natural landscapes of a conservation corridor adjacent to the Garden Route National Park, Western Cape | Completed (2016)                     |
| 7) S. Atkinson                                                                                                                                                                                                                                                               | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | The precision of waterfowl numbers through Co-ordinated Waterbird Counts on the Great Brak Estuary                                                     | Completed (2016)                     |
| 8) A. Robinson                                                                                                                                                                                                                                                               | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | Does distance from water influence herbivore assemblages in Kruger National Park?                                                                      | Completed (2017)                     |
| 9) D. van Aswegen                                                                                                                                                                                                                                                            | BTech (Nature Conservation), NMU, Supervisor                                                                                                                                      | The effect of forest fragmentation on forest bird diversity and movement in a plantation dominated landscape                                           | Completed (2017)                     |

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|-----------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 10) KL Midlane        | BTech (Nature Conservation), NMU, Supervisor      | Amphibian and reptile biodiversity patterns in commercial plantations of the Southern Cape                                                                                 | Completed (2017)                     |
| 11) M. Gouws          | BTech (Nature Conservation), NMU, Supervisor      | Do different herbivores influence soil nitrogen levels in Satara, Kruger National Park?                                                                                    | Completed (2017)                     |
| 12) O. Rynders        | BTech (Nature Conservation), NMU, Supervisor      | Forest fragmentation and its effects on invertebrate diversity and abundance                                                                                               | Completed (2017)<br><i>Cum Laude</i> |
| 13) Z. Schoeman       | BTech (Nature Conservation), NMU, Supervisor      | The effect of anthropogenic disturbance on marine shorebird population size and habitat use in the Garden Route                                                            | Completed (2017)                     |
| 14) D. de Villiers    | BTech (Nature Conservation), NMU, Supervisor      | The herpetological diversity in the Karoo National Park in South Africa                                                                                                    | Completed (2018)                     |
| 15) C. Esmeraldo      | BTech (Nature Conservation), NMU, Supervisor      | The influence of vegetation and water on ungulate distribution in the Karoo National Park                                                                                  | Completed (2018)                     |
| 16) A. Laas           | BTech (Nature Conservation), NMU, Supervisor      | The activity patterns of herbivores exposed to predators in the Karoo National Park, South Africa                                                                          | Completed (2018)                     |
| 17) J. Dicker         | BTech (Nature Conservation), NMU, Supervisor      | The activity patterns of species exposed to large predators in the Mountain Zebra National Park                                                                            | Completed (2018)                     |
| 18) S. Truter         | BSc Hons (Wildlife Management), UP, Co-Supervisor | Effects of medium to large carnivores on small carnivores in space and time in the Telperion Nature Reserve                                                                | Completed (2018)                     |
| 19) N. Nkosi          | BTech (Nature Conservation), NMU, Supervisor      | Ungulates response to old agricultural fields in Gondwana Game reserve                                                                                                     | Completed (2019)                     |
| 20) I. Bettings       | BTech (Nature Conservation), NMU, Supervisor      | Habitat variations influencing the frequency of bird strikes in high air traffic areas within the George Airport                                                           | Completed (2019)                     |
| 21) D. Ball           | BTech (Nature Conservation), NMU, Supervisor      | Large tree utilisation of the African Elephant ( <i>Loxodonta africana</i> ) in the Savanna biome                                                                          | Completed (2019)                     |
| 22) G. Reynolds       | BTech (Nature Conservation), NMU, Supervisor      | Assessing impacts of African elephant ( <i>Loxodonta africana</i> ) on the vegetation of Gondwana Private Game Reserve                                                     | Completed (2019)                     |
| 23) K. Smith          | BSc Hons (Wildlife Management), UP, Co-Supervisor | Testing the spatial and temporal avoidance hypothesis in a semi-arid landscape: Do subordinate carnivores of the Karoo change behaviour in response to dominant predators? | Completed (2019)<br><i>Cum Laude</i> |
| 24) G. Sambula        | BSc Hons (Zoology), UNIVEN, Co-Supervisor         | Carnivore Richness In Private And State Protected Areas                                                                                                                    | Completed (2019)                     |
| 25) T. Baird          | BSc Hons (Wildlife Management), UP, Co-Supervisor | Spatial and temporal avoidance between large and meso-carnivores                                                                                                           | Completed (2020)                     |
| 26) A. Gervais        | BSc Hons (Wildlife Management), UP, Co-Supervisor | Investigating the impact of large carnivores on mesocarnivores' temporal dynamics                                                                                          | Completed (2020)                     |
| 27) Miss E.E.M. Evers | BSc Hons (Wildlife Management), UP, Co-Supervisor | Spatial and temporal organization of leopards ( <i>Panthera pardus</i> ) and spotted hyaena ( <i>Crocuta crocuta</i> ) on Madikwe Game Reserve                             | Completed (2020)                     |
| 28) Mr R. Pienaar     | BSc Hons (Animal, Plant & Environmental)          | Do lions with long, dark manes behaviourally compensate for potentially                                                                                                    | Completed (2020)                     |

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|                            | Science), WITS, Co-Supervisor                              | high heat loads?                                                                                                                                  |                                      |
| 29) Mr I Kayiza            | BSc Hons (Wildlife Management), UP, Co-Supervisor          | Edge effect and its impacts on the abundance of mammal species in selected protected areas in South Africa                                        | Completed (2020)                     |
| 30) Mr N.K. Shah           | BSc Hons (Wildlife Management), UP, Co-Supervisor          | Do herbivores change their behaviour in the absence of lions in arid areas of SA?                                                                 | Completed (2021)<br><i>Cum Laude</i> |
| 31) Miss M. Thomson        | BSc Hons (Wildlife Management), UP, Co-Supervisor          | Herbivore space use in Atherstone Nature Reserve, Limpopo Province, South Africa.                                                                 | Completed (2021)<br><i>Cum Laude</i> |
| 32) Miss T. Tiribeni       | BSc Hons (Wildlife Management), UP, Co-Supervisor          | The effect of lion pride structure on home ranges                                                                                                 | Completed (2022)                     |
| 33) Miss K. Mieny          | BSc Hons (Wildlife Management), UP, Co-Supervisor          | A Preliminary Assessment of the Seasonal Difference and Influence of Megaherbivores on the Diets of Large Herbivores in Sanbona Wildlife Reserve  | Completed (2022)                     |
| 34) Mr A. van Niekerk      | BSc Hons (Wildlife Management), UP, Co-Supervisor          | Leopard tortoise occupancy in arid reserves in South Africa: assessment using camera traps.                                                       | Completed (2022)                     |
| 35) Miss H. Basson         | BSc Hons (Natural Resource Management), NMU, Co-supervisor | Factors influencing Chondrichthyan egg case hatching success in Mossel Bay, South Africa                                                          | Completed (2023)<br><i>Cum Laude</i> |
| 36) Miss Y. Markides       | BSc Hons (Natural Resource Management), NMU, Supervisor    | The Development of a Condition Scoring System for White Rhinoceros ( <i>Ceratotherium simum</i> ), using expert knowledge                         | Completed (2023)                     |
| 37) Mrs Rebecka Ryan       | BSc Hons (Natural Resource Management), NMU, Supervisor    | Opportunistic utilisation of resource pulses by a mesopredator in Welgevonden Game Reserve, South Africa                                          | Completed (2023)<br><i>Cum Laude</i> |
| 38) Mr D Stols             | BSc Hons (Natural Resource Management), NMU, Co-supervisor | Elephants reduce vegetation diversity and affect tree structure in Madikwe Game Reserve                                                           | Completed (2023)<br><i>Cum Laude</i> |
| 39) Mr T. Fifford          | BSc Hons (Natural Resource Management), NMU, Supervisor    | An assessment of a decade of surf-zone linefish monitoring in the Goukamma Marine Protected Area: Is the current resource use zonation effective? | Completed (2023)<br><i>Cum Laude</i> |
| 40) Mr D.J.S. Samarasinghe | BSc Hons (Natural Resource Management), NMU, Supervisor    | On the population ecology of an island leopard from a protected landscape                                                                         | Completed (2023)                     |
| 41) Miss S Rich            | BSc Hons (Wildlife Management), UP, Co-Supervisor          | The effect of vehicles on black-backed jackal ( <i>Lupulella mesomelas</i> ) and leopard ( <i>Panthera pardus</i> ) activity                      | Completed (2023)                     |
| 42) Miss M. Venter         | BSc Hons (Wildlife Management), UP, Co-Supervisor          | Drivers of free-roaming African wild dog land use in the Waterberg, South Africa                                                                  | Completed (2023)                     |
| 43) Miss C Meyer           | BSc Hons (Wildlife Management), UP, Co-Supervisor          | Assessing the Indirect Effect of Elephants on Bird & Bat Assemblages                                                                              | Completed (2024)                     |
| 44) Mr K. Saloojee         | BSc Hons (Natural Resource Management), NMU, Co-Supervisor | Testing a Novel Camera Trapping Method to Survey African Small Carnivore Populations                                                              | Completed (2024)                     |

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|----------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 45) Miss J Morris    | BSc Hons (Natural Resource Management), NMU, Supervisor   | Balancing Fear and Forage: How zebra <i>Equus quagga</i> navigate risk and resources in the Makgadikgadi Pans, Botswana                               | In-progress (2025)                        |
| 46) Miss D Ferreira  | BSc Hons (Natural Resource Management), NMU, Supervisor   | Golden Moles of the Southern Cape: Insights into Their Distribution and Habitat Selection                                                             | In-progress (2025)                        |
| 47) Miss H Loubser   | BSc Hons (Natural Resource Management), NMU, Supervisor   | Environmental factors that influence lion pride spatial use in Kruger National Park                                                                   | In-progress (2025)                        |
| 48) Miss A Watson    | BSc Hons (Natural Resource Management), NMU, Supervisor   | Assessing the impacts of Environmental and Anthropogenic Factors on Elephant Spatial Distribution in a Fenced Reserve                                 | In-progress (2025)                        |
| <b>Masters</b>       |                                                           |                                                                                                                                                       |                                           |
| 1) Mr E. Mmonoa      | MSc (Zoology), University of Limpopo, Co-supervisor       | Breeding habitat of Blue crane ( <i>Anthropoides paradiseus</i> ) in Mpumalanga                                                                       | Completed (2010)                          |
| 2) Miss M. Pfeiffer  | MSc (Zoology), University of Kwazulu-Natal, Co-supervisor | Understanding the association between Cape Vultures ( <i>Gyps coprotheres</i> ) and communal farmland.                                                | Upgraded to PhD (2013)                    |
| 3) Mrs M. Vermeulen  | MSc (Nature Conservation), NMU, Co-supervisor             | Exploring feeding ecology and population growth rate responses of ungulates in southern African arid biomes                                           | Completed (2016-2017)                     |
| 4) Mr C. Brooke      | MSc (Nature Conservation), NMU, Supervisor                | Energy maximisation strategies of different African herbivores in a fire dominated and nutrient poor grassland ecosystem                              | Completed (2016-2017)<br><i>Cum Laude</i> |
| 5) Miss F. Martens   | MSc (Nature Conservation), NMU, Supervisor                | The spatial ecology and roost site selection of fledging Cape Vultures ( <i>Gyps coprotheres</i> ) in the Eastern Cape, South Africa.                 | Completed (2016-2017)<br><i>Cum Laude</i> |
| 6) Mrs T. Meintjes   | MSc (Nature Conservation – Part time), NMU, Supervisor    | Using citizen science data to evaluate waterbird populations in the Garden Route                                                                      | Deregistered (2016-2020)<br>Not completed |
| 7) Miss D. Winterton | MSc (Nature Conservation), NMU, Supervisor                | Land use and ecosystem regulation: Exploring the influence of management practise on mesopredator and herbivore interactions                          | Completed (2017-2018)                     |
| 8) Mr J. Vogel       | MSc (Nature Conservation), NMU, Supervisor                | Predicting reintroduction outcomes: Assessing the feasibility of reintroducing African wild dog to a small protected area.                            | Completed (2017-2018)<br><i>Cum Laude</i> |
| 9) Miss C. Young     | MSc (Nature Conservation), NMU, Supervisor                | Examining the influence of extrinsic factors on herbivore assemblage composition and resultant nutrient feedbacks in Kruger National Park             | Completed (2017-2018)                     |
| 10) Miss A. Robinson | MSc (Nature Conservation), NMU, Supervisor                | The influence of water dependency on the spatial ecology of large mammalian herbivores on the paleo-Agulhas plain                                     | Deregistered (2018-2022)<br>Not completed |
| 11) Miss Z. Schoeman | MSc (Nature Conservation), NMU, Supervisor                | The spatiotemporal aspects of predation on the Cape gannet <i>Morus capensis</i> population at Bird Island, Lambert's Bay, Western Cape, South Africa | Completed (2018-2019)                     |
| 12) Mr P. Faure      | MSc (Nature Conservation), NMU, Supervisor                | The influence of anthropogenic and environmental covariates on the habitat use and density of sympatric carnivores, Limpopo Province, South Africa    | Completed (2018-2019)                     |

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|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 13) Miss YRP. Swartz                  | MSc (Nature Conservation), NMU, Supervisor                                                                        | Elephants in Madikwe Game Reserve: Measuring past and future impacts                                                                                                                         | Deregistered (2018-2021)<br>Not completed |
| 14) Miss C. Burt                      | MSc (Nature Conservation), NMU, Supervisor                                                                        | An assessment of different methods for measuring mammal diversity in two Southern African arid ecosystems                                                                                    | Completed (2018-2020)                     |
| 15) Miss A. Jansen-van Vuuren         | MSc (Nature Conservation), NMU, Supervisor                                                                        | The feeding ecology and habitat selection of small antelopes in the Overberg Renosterveld, Western Cape                                                                                      | Completed (2019-2020)                     |
| 16) Mr H. Swanepoel                   | MSc (Nature Conservation), NMU, Supervisor                                                                        | The implications of landscape scale habitat fragmentation and ecological corridors on the spatial ecology of five specialist browser species in a lowland Fynbos and Renosterveld ecosystem. | Completed (2019-2020)                     |
| 17) Miss T. Honiball                  | MSc (Nature Conservation), NMU, Supervisor                                                                        | Estimating the population size of three large carnivore species and the diet of six large carnivore species, in Madikwe Game Reserve                                                         | Completed (2019-2020)                     |
| 18) Miss N. Tsie                      | MSc (Wildlife Management), UP, Co-supervisor                                                                      | The interaction between burrowing mammal occurrence and large carnivore presence in South Africa                                                                                             | Deregistered, Not completed (2019-2022)   |
| 19) Mrs C. Shutte                     | MSc (Nature Conservation), NMU, Supervisor                                                                        | Understanding what factors determine the birth-sex ratio of Chacma baboons ( <i>Papio ursinus</i> ) on the Cape Peninsula                                                                    | Deregistered, Not completed (2020-2023)   |
| 20) Miss I. Bettings                  | MSc (Nature Conservation), NMU, Supervisor                                                                        | Using spatial explicit capture-recapture model to investigate the demography and spatial dynamics of lion prides in Pilanesberg National Park                                                | Completed (2020-2021)                     |
| 21) Mr Kyle Smith                     | MSc (Wildlife Management), UP, Co-supervisor                                                                      | Testing the spatial and temporal avoidance hypotheses: Do subordinate carnivores change behaviour in response to dominant carnivores?                                                        | Completed (2020-2022)                     |
| 22) Mr D. Ball                        | MSc (Nature Conservation), NMU, Supervisor                                                                        | Do African elephants ( <i>Loxodonta africana</i> ) use artificial water points as central forage stations in the Madikwe Game Reserve?                                                       | Deregistered (2020-2021)<br>Not completed |
| 23) Miss J. Daya                      | MSc (Nature Conservation), NMU, Supervisor                                                                        | Feeding ecology and habitat preference of black rhino ( <i>Diceros bicornis</i> ) in Welgevonden Game Reserve, Limpopo Province.                                                             | Completed (2020-2021)                     |
| 24) Mr TD Baird                       | MSc (Wildlife Management), UP, Co-supervisor                                                                      | Implications of camera trap survey design and analytical methods for large carnivore estimates                                                                                               | Completed (2021)                          |
| 25) Miss J. Harris                    | MSc (Nature Conservation), NMU, Supervisor                                                                        | Investigating the effects of pulse-driven resource availability on mammal communities in the Kalahari, South Africa                                                                          | Completed (2021-2022)                     |
| 26) Mr Markus Woesner                 | MSc (Conservation and Management of Fish and Wildlife), Swedish University of Agricultural Science, Co-supervisor | Does the response to hot temperatures differ among species in a large herbivore community in the southern Kalahari? A landscape of risk versus heat                                          | Completed (2022-2023)                     |
| 27) Mr Samuel Ralph Davidson-Phillips | MSc (Nature Conservation), NMU, Supervisor                                                                        | Estimation of a generalist meso-carnivore (Black-backed Jackal) population from a fenced protected area                                                                                      | Completed (2022-2023)<br><i>Cum Laude</i> |
| 28) Mr Moraswi Masehle                | Magister Science Wildlife Health, Ecology and Management, University of Pretoria,                                 | The Activity Patterns of the Specialized Browsing Species and their Behavioral Adjustments in Response to Predation                                                                          | In progress (2022)                        |

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|----------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|                            | Co-supervisor                                                                                |                                                                                                                                                             |                                         |
| 29) Mr Jaco Geldenhuys     | Master of Scientiae (MSc) in Environmental Management, University of Pretoria, Co-supervisor | Occupancy of black-backed jackal ( <i>Canis mesomelas</i> Schreber, 1775) across South Africa                                                               | In progress (2021-2022)                 |
| 30) Miss Cleo Ferreira     | MSc (Nature Conservation), NMU, Supervisor                                                   | Evaluating the impact of dehorning on the behavioural ecology of white rhinoceros ( <i>Ceratotherium simum</i> )                                            | In progress (2023-2024)                 |
| 31) Mrs Rebecca Ryan-Stolz | MSc (Nature Conservation), NMU, Supervisor                                                   | Estimating population density and assessing territoriality of African lions ( <i>Panthera leo</i> ) in Kruger National Park, South Africa                   | In progress (2024-2025)                 |
| 32) Miss Yasmin Markides   | MSc (Nature Conservation), NMU, Supervisor                                                   | Assessing landscape permeability and dispersal corridors for threatened carnivores across a multi-use landscape                                             | In progress (2024-2025)                 |
| 33) Miss Hannah Basson     | MSc (Nature Conservation), NMU, Supervisor                                                   | A landscape-level evaluation of black-footed cat ( <i>Felis nigripes</i> ) distribution in the south-eastern Karoo                                          | In progress (2024-2025)                 |
| 34) Mr Dietre Stolz        | MSc (Nature Conservation), NMU, Co-Supervisor                                                | Giants of the Savannah: Unravelling the Impact of Elephant Preferences on Woody Vegetation in Madikwe and Timbavati Game Reserves.                          | In progress (2024-2025)                 |
| 35) Miss M Venter          | MSc (Wildlife Management), UP, Co-supervisor                                                 | Diet and movement patterns of two free-roaming packs of African wild dogs ( <i>Lycaon pictus</i> ) in the Waterberg, South Africa                           | In progress (2024-2025)                 |
| 36) Miss R Mooney          | MSc (Nature Conservation), NMU, Supervisor                                                   | Ranging behaviors of endangered, free-roaming African wild dogs ( <i>Lycaon pictus</i> ) outside of formally protected areas in the Waterberg, South Africa | In progress (2024-2025)                 |
| 37) Miss Carina Meyer      | MSc (Nature Conservation), NMU, Supervisor                                                   | The influence of complex social structures with fission-fusion properties on foraging efficiency and spatial dynamics of buffalo herds in the APNR          | In progress (2025-2026)                 |
| <b>Doctoral</b>            |                                                                                              |                                                                                                                                                             |                                         |
| 1) Miss M. Pfeiffer        | PhD (Zoology), University of Kwazulu-Natal, Co-supervisor                                    | Ecology and conservation of the Cape Vulture in the Eastern Cape, South Africa                                                                              | Completed 2016                          |
| 2) Mr W. Matthee           | PhD (Nature Conservation – Part time), NMU, Supervisor                                       | Forest birds and habitat fragmentation: evolutionary adaptations to environmental change                                                                    | Deregistered, Not completed (2016-2022) |
| 3) Mrs MM. Vermeulen       | PhD (Nature Conservation), NMU, Supervisor                                                   | Variation in abundance and structure of mammal communities and the consequences for species diversity                                                       | In progress (2018-2022)                 |
| 4) Mrs FR. Brooke          | PhD (Nature Conservation), NMU, Supervisor                                                   | Cape Vultures and their increasing threats: a race to extinction?                                                                                           | Completed (2018-2021)                   |
| 5) Mr CF. Brooke           | PhD (Nature Conservation), NMU, Supervisor                                                   | Large mammalian fauna of the Palaeo-Agulhas Plain: Predicting habitat use and range distribution                                                            | Completed (2018-2020)                   |
| 6) Mr P. Mkumba            | PhD (Nature Conservation), NMU, Co-Supervisor                                                | Migration patterns of male elephants ( <i>Loxodonta africana</i> ) in the Hwange-Shangani corridor: Consequences on Human Elephant Conflict                 | In progress (2019-2022)                 |
| 7) Mr W. Conradie          | PhD (Nature Conservation), NMU, Supervisor                                                   | Herpetofaunal diversity and affiliations of the Okavango River Basin, with specific focus on the Angolan headwaters.                                        | Completed (2020-2023)                   |
| 8) Miss A. Bernard         | PhD (Zoology) REHABS                                                                         | Trophic guild distortion in anthropogenic                                                                                                                   | Completed (2020-2022)                   |

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|                                                         | International Research Laboratory, CNRS- Université Lyon 1- Nelson Mandela University, Co-Supervisor | landscapes – Testing anthropodependence and reconciliation ecology principles of mammals in the Greater Cape Floristic Kingdom.                                      |                                                                                                     |
| 9) Mr GS. Botha                                         | PhD (Nature Conservation), NMU, Supervisor                                                           | The effects of fences and other infrastructure on the mammal community structure and distribution in protected areas across South Africa.                            | Submitted (2020-2025)                                                                               |
| 10) Dr C. Helm                                          | PhD (Geoscience), NMU, Co-supervisor                                                                 | Pleistocene fossil tracks and traces on the Cape coast of South Africa                                                                                               | Completed (2020-2023)                                                                               |
| 11) Mrs Z. Strydom                                      | PhD (Nature Conservation), NMU, Supervisor                                                           | Assessing the effects of fish stock management on endangered seabird populations in South Africa                                                                     | Completed (2020-2023)                                                                               |
| 12) Mrs W.L. Zeller Zigaitis                            | PhD (Geography), Pennsylvania State University, Co-supervisor                                        | Protected Area Process and Design: Using Geospatial Data to Mitigate Poaching in Protected Areas                                                                     | Completed (2020-2024)                                                                               |
| 13) Miss T. Honiball                                    | PhD (Nature Conservation), NMU, Supervisor                                                           | Social dynamics of spotted hyaenas ( <i>Crocuta crocuta</i> ) in fenced protected areas: Implications for conservation management of a socially intelligent species. | Completed (2021-2024)                                                                               |
| 14) Miss A. Jansen van Vuuren                           | PhD (Nature Conservation), NMU, Supervisor                                                           | The role of spotted and brown hyaena activity hotspots on interspecific interactions                                                                                 | In progress (2021-2024)                                                                             |
| 15) Mr H. Swanepoel                                     | PhD (Nature Conservation), NMU, Supervisor                                                           | The effects of climate on the phenology of African ungulates in arid and semi-arid regions of South Africa.                                                          | In progress (2022-2024)                                                                             |
| 16) Miss J Daya                                         | PhD (Nature Conservation), NMU, Supervisor                                                           | Managing Lions in Pilanesberg National Park: Finding a Balance between Economic and Ecological Realities in Fenced Parks                                             | In progress (2023-2025)                                                                             |
| 17) Miss J Harris                                       | PhD (Nature Conservation), NMU, Supervisor                                                           | A Game of Thrones: Rivals, territories and resources. What are the intrinsic costs to African lions contained in small, fenced parks?                                | Deregistered (2023-2023)<br>Not completed.                                                          |
| 18) Mr S Tokota                                         | PhD (Nature Conservation), NMU, Supervisor                                                           | A regional assessment of leopard ( <i>Panthera pardus</i> ) population status, threats, distribution, and habitat connectivity in the Eastern Cape, South Africa     | In progress (2023-2025)                                                                             |
| 19) Miss E Overton                                      | PhD (Nature Conservation), NMU, Supervisor                                                           | The ecological role of cheetah ( <i>Acinonyx jubatus</i> ) and their impact on prey populations on Tswalu Kalahari Reserve                                           | In progress (2023-2026)                                                                             |
| 20) Miss M Rodriguez                                    | PhD Biodiversity (U. of Barcelona), Supervisor                                                       | Enhancing Coexistence: Understanding Large Carnivore Mobility in Different Wildlife-Based Land Use Patterns in South Africa                                          | In progress (2024-2026)                                                                             |
| <b>Post-Doctoral Researchers &amp; Research fellows</b> |                                                                                                      |                                                                                                                                                                      |                                                                                                     |
| 1) Dr L. Pardo-Vargas                                   | Snapshot Safari South Africa – A country wide assessment of mammal biodiversity                      |                                                                                                                                                                      | FBIP-NRF Post-Doctoral Researcher (2019-2020)<br>NRF Innovation Postdoctoral Fellowship (2021-2022) |
| 2) Dr C. Guerbois                                       | Social-Ecological Systems                                                                            |                                                                                                                                                                      | NMU Research Fellow (2019-2023)                                                                     |
| 3) Dr D. Marneweck                                      | Snapshot Safari South Africa – A country wide assessment of mammal biodiversity                      |                                                                                                                                                                      | NMU Post-Doctoral Research Fellow (2020-2021)                                                       |
| 4) Dr C. Brooke                                         | Late Pleistocene herbivore use on the Palaeo-Agulhas Plain: the                                      |                                                                                                                                                                      | NRF Innovation Postdoctoral                                                                         |

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|                   | facilitation role of megaherbivores and the implications for the modern rewilding of landscapes                                       | Fellowship (2021-2022)                                                                         |
| 5) Dr R. Davies   | Assessing the density, distribution and spatiotemporal dynamics of small carnivores across African conservation landscapes            | NMU Post-Doctoral Research Fellow (2022-2023)                                                  |
| 6) Dr Chad Keates | Genetic study on herpetological samples from Angola in association with Werner Conradie, PE Museum.                                   | NMU Post-Doctoral Researcher (2022)                                                            |
| 7) Dr L Thel      | A Game of Thrones: Rivals, territories and resources. What are the intrinsic costs to African lions contained in small, fenced parks? | FBIP-NRF Post-Doctoral Researcher (2023-2024)<br>NMU Post-Doctoral Research Fellow (2025-2026) |

## 6. Experience in Teaching & Learning

| Teaching experience             |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |
|---------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Time period                     | Institution                                           | Module or Course Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |
| 2015-current                    | Nelson Mandela University                             | I teach Animal Studies I/Game Health I & Animal Studies III/Game Science III to undergraduates (Diploma in Nature Conservation and Diploma in Game Ranch Management), Conservation Management and Plant Studies IV (BTech Nature Conservation), Game Science IV/Animal Studies IV (Advanced Diploma in Game Ranch Management & Advanced Diploma Nature Conservation), Conservation Management (BSc Hons Natural Resource Management).                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |
| 2022 (April-May)                | Swedish University of Agricultural Sciences           | Visiting lecturer at the Department Wildlife, Fish and Environmental Studies, Umea. Course work Masters degree, International Wildlife Management Module. Sweden-South Africa Erasmus ICM exchange program on wildlife ecology and management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |
| 2010-2018                       | Pennsylvania State University/University of Cape Town | Assisted in setting up and hosting a study abroad program called People and Parks South Africa ( <a href="http://aeseda.psu.edu/programs/parks-and-people-south-africa/">http://aeseda.psu.edu/programs/parks-and-people-south-africa/</a> ). The students spend 10 weeks in South Africa (January-March) on an annual basis. I was one of the South African field lecturers for the program and presented practical biodiversity surveys (where we physically conducted biodiversity inventory surveys on various protected areas) and since 2013 an introductory course to conservation in South Africa. This course (2 weeks) introduced students to South African ecological and biodiversity features as well as various protected area management models while traveling from Cape Town to their base (Wild Coast, Eastern Cape). |                                            |
| 2005                            | University of Limpopo                                 | Taught GIS to 1 <sup>st</sup> and 2 <sup>nd</sup> year students for one semester as substitute lecturer at the Department of Geography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |
| Curriculum Development & Review |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |
| 2019                            | Nelson Mandela University                             | Development of the new Advanced Diploma: Nature Conservation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Team leader of course development team     |
| 2018-2019                       | Nelson Mandela University                             | Development of the new BSc Honours: Natural Resource Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Team member of the course development team |
| 2020                            | University of South Africa                            | Review of the Postgraduate Diploma: Nature Conservation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Chairman of the external review committee  |
| 2020                            | Southern African Wildlife College                     | Review of a new Diploma: Applied Natural Resource Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | External reviewer                          |

## 7. Professional membership and service

| Association                                       | Details                                               | Time period       |
|---------------------------------------------------|-------------------------------------------------------|-------------------|
| South African Wildlife Management Association     | Ordinary member (Council member 2008-2010; 2018-2023) | 1998-Current date |
| Zoological Society of Southern Africa             | Ordinary member                                       | 2009-2023         |
| IUCN Crocodile Specialist Group                   | Ordinary member                                       | 2013-2025         |
| Mammal Research Institute, University of Pretoria | Research Associate                                    | 2013-Current date |

|                                                                                                            |                                                                                      |                     |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------|
| Centre for Coastal Palaeo Science, NMU                                                                     | Honorary Researcher                                                                  | 2016-Current date   |
| South African Council for Natural Scientific Professions                                                   | Professional Natural Scientist – Ecological Sciences: Registration Number. 400111/14 | 2014-Current date   |
| Associated Private Nature Reserves Ecological Advisory Committee                                           | Committee member                                                                     | 2022 – Current date |
| Welgevonden Game Reserve Scientific Advisory Committee                                                     | Committee member                                                                     | 2018-Current date   |
| <i>BirdLife South Africa and Endangered Wildlife Trust - Birds and Renewable Energy Specialist Group</i>   | Specialist advisor                                                                   | 2019-2021           |
| <i>SEA REDZs Vulture Working Group</i>                                                                     | Specialist                                                                           | 2024-Current date   |
| REHABS International Research Laboratory, CNRS- Université Lyon 1-Nelson Mandela University, George Campus | Deputy Director                                                                      | 2019-Current date   |
| Society for Conservation Biology                                                                           | Professional Member                                                                  | 2020-Current date   |
| Centre for African Conservation Ecology, Nelson Mandela University                                         | Member                                                                               | 2022-Current date   |

## 8. Other courses and qualifications

| List of qualifications obtained                                                                                     | List of courses completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Professional Hunter;<br>Category C Skippers License;<br>Marine VHF Radio Operator;<br>NAUI Open Water 1 SCUBA Diver | Statistical Techniques in Ecology, Snake ID & Snakebite Treatment; Advanced Snake Handling; Conservation Planning; Practical Remote Sensing for Conservation Biologists; Ecological Niche Modelling; Landscape genetic approaches for Conservation Biologists; Resource evaluation and game ranch management for sustainable game production and conservation; Disease Risk Assessment; Game counting techniques; Wildlife handling and welfare; Maintenance of outboard motors and handling of boats on inland waters; Various ArcView, ArcGIS courses; Quantum GIS Various Windows Software courses; Financial management systems; Peace officer; Problem animal control. |

## 9. Referees

### Prof. Herbert Prins

Full Professor & Former Chairman of the Graduate School Production Ecology  
Resource Ecology Group, Wageningen University  
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### Prof. Rob Slotow

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### Prof. Michael Somers

Professor  
Mammal Research Institute, University of Pretoria  
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Cell: +27(72) 1007022





**herewith certifies that**

**Jan Adriaan Venter**

Registration Number: 400111/14

**is a registered scientist**

in terms of section 20(3) of the Natural Scientific Professions Act, 2003  
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Ecological Science (Professional Natural Scientist)

Effective    **12 March 2014**

Expires      **31 March 2026**



A handwritten signature in black ink, appearing to read 'S. Venter'.

Chairperson

A handwritten signature in black ink, appearing to read 'M. Maseko'.

Chief Executive Officer

