



# Tanya Strydom

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## Research Interests

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microclimates; species interactions; functional traits; ecoinformatics

## Education

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### Stockholm University

MASTER OF SCIENCE: ECOLOGY AND BIODIVERSITY

Stockholm, Sweden

2018-20

- Advisor: Dr K. Hylander
- Thesis: Thesis: Declines and increases in northern and southern plant populations after changes in the microclimate

### University of Pretoria

BACHELOR OF SCIENCE (HONOURS): PLANT SCIENCES

Pretoria, South Africa

2017

- Advisor: Dr P.C. le Roux
- Thesis: Thesis: Bush encroachment in South Africa's montane grasslands: the impact of *Leucosidea sericea* on microclimate and vegetation

### University of Pretoria

BACHELOR OF SCIENCE: ECOLOGY

Pretoria, South Africa

2014-16

## Research Experience

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### Plant functional trait responses to elevation and fire

V. VANDVIK, PHD AND B.J. ENQUIST, PHD

2020

- Attended the 5th Plants Functional Traits Course in Peru co-hosted by the University of Bergen and Arizona University.
- Theory on plant functional traits and their relationships with broader ecological processes.
- Practical elements include: experimental design, data collection and curation, and report writing.

### Plant vital rates along microclimate gradients.

K. HYLANDER, PHD

2019-20

- Masters degree research project.
- Focused on the variation of plant population vital rates along microclimate gradients and the role of historic climatic conditions.

### Plant-pollinator interactions in different microsites

J. EHRLÉN, PHD AND A. TACK, PHD

2019

- A Masters level course research project. Gained experience in experimental design and hypothesis formulation.

### The impact of an encroaching species on vegetation and microclimate

P. LE ROUX, PHD

2017

- Honours degree research project. Research focused on the concepts of biotic interactions, ecosystem engineering and habitat modification.

## Other Skills

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### Statistical Analysis

GENERALIZED MIXED-EFFECT MODELLING; MULTIVARIATE ANALYSIS; BAYESIAN ANALYSIS

### Academic Writing

ASSESSED AT VARIOUS LEVELS; LITERATURE REVIEWS; RESEARCH PROPOSALS; RESEARCH REPORTS; POPULAR ARTICLES

### Oral Communication

MASTERS LEVEL COURSE; PRESENTED VARIOUS SETTINGS

### Peer Review

ASSISTED (PLOS ONE, 2018); SECOND-ROUND REVIEWER (PLANT ECOLOGY, 2019)

## Image Analysis

IMAGEJ; ADOBE PHOTOSHOP

## Spatial Analysis

HONOURS LEVEL COURSE FOCUSED ON SPATIAL ANALYSIS IN ECOLOGY; ARCGIS; MAXENT

## Language Skills

ENGLISH AND AFRICAANS AS A NATIVE SPEAKER; CONVERSATIONAL IN GERMAN

## Written Works

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### PUBLICATIONS

**J Kattge, G Bönisch, S Díaz, S Lavorel, IC Prentice, P Leadley, ...**

TRY PLANT TRAIT DATABASE—ENHANCED COVERAGE AND OPEN ACCESS

*Global change biology*

2020

### MANUSCRIPTS UNDER REVIEW

**S Cotner, B.J Enquist, J Chacon, B Maitner, W Farfan-Rios, T Strydom...**

INTERNATIONAL SCIENTISTS NEED BETTER SUPPORT DURING GLOBAL EMERGENCIES

2020

### POPULAR ARTICLES

**S Cotner, B.J Enquist, J Chacon, B Maitner, W Farfan-Rios, T Strydom...**

INTERNATIONAL SCIENTISTS NEED BETTER SUPPORT DURING GLOBAL EMERGENCIES

*Times Higher Education*

2020

## Funding and Awards

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**Qualified for the UP Postgraduate Masters Research Bursary.**

AWARDED BY: UNIVERSITY OF PRETORIA

2018

**Awarded the 3rd year Undergraduate Mentorship Bursary.**

AWARDED BY: UNIVERSITY OF PRETORIA

2016

## References

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**Peter C. le Roux, Ph.D.**

ASSISTANT PROFESSOR OF ECOLOGY AND BIODIVERSITY, UNIVERSITY OF PRETORIA

*peter.leroux@up.ac.za*

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**Kristoffer Hylander, Ph.D.**

PROFESSOR OF ECOLOGY, DEPARTMENT OF ECOLOGY, ENVIRONMENT AND PLANT SCIENCES, STOCKHOLM UNIVERSITY

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**Sehoya Cotner, Ph.D.**

PROFESSOR OF BIOLOGY TEACHING AND LEARNING, UNIVERSITY OF MINNESOTA

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