



# Tanya Strydom

☎ +46 76 567 8299 | ✉ tanya.strydom@icloud.com | 🏠 tanyadoesscience.com | 📺 TanyaS08 | 🐦 TanyaS\_08

## Research Interests

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microclimates; species interactions; functional traits; ecoinformatics

## Education

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### Master of Science: Ecology and Biodiversity

STOCKHOLM UNIVERSITY

Stockholm, Sweden

2018-20

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

### Bachelor of Science (Honours): Plant Sciences

UNIVERSITY OF PRETORIA

Pretoria, South Africa

2017

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

### Bachelor of Science: Ecology

UNIVERSITY OF PRETORIA

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.
- Independently worked on hypothesis formulation and experimental design.

### Changes in plant functional traits at fine-scales

P.C. LE ROUX, PhD

2018

- Collecting and processing plant functional traits on sub-Antarctic Marion Island.
- Research focused on looking at changes in plant functional traits along microclimate gradients.

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

P.C. 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 AFRIKAANS AS A NATIVE SPEAKER; CONVERSATIONAL IN GERMAN

## Written Works

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### PUBLICATIONS

1. Kattge, J, G Bönsch, S Díaz, S Lavorel, I Prentice, P Leadley, and ... (2020). TRY plant trait database–enhanced coverage and open access. *Global change biology*.

### MANUSCRIPTS UNDER REVIEW

1. Geange, S, J von Oppen, S Middleton, TL Gauthier, T Strydom, and RG and... (n.d.). *International scientists need better support during global emergencies*. Submitted.

### POPULAR ARTICLES

1. Cotner, S, BJ Enquist, J Chacon, B Maitner, W Farfan-Rios, and SM and... (2020). *International scientists need better support during global emergencies*. <https://www.timeshighereducation.com/blog/international-scientists-need-better-support-during-global-emergencies>.

## 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](mailto:peter.leroux@up.ac.za)

+27 (0)12 420 6761

### Kristoffer Hylander, Ph.D.

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

[kristoffer.hylander@su.se](mailto:kristoffer.hylander@su.se)

### Sehoya Cotner, Ph.D.

PROFESSOR OF BIOLOGY TEACHING AND LEARNING, UNIVERSITY OF MINNESOTA

[sehoya@umn.edu](mailto:sehoya@umn.edu)

+1 (612) 626 2385