



# Tanya Strydom

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## Research Interests

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functional traits; ecoinformatics; microclimates; species interactions; FAIR and open science

## Education

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### Master of Science: Ecology and Biodiversity

Stockholm, Sweden

STOCKHOLM UNIVERSITY

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

Pretoria, South Africa

UNIVERSITY OF PRETORIA

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

Pretoria, South Africa

UNIVERSITY OF PRETORIA

2014-16

## Written Work

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### PEER-REVIEWED

1. Kattge, J, G Boenisch, S Diaz, S Lavorel, C Prentice, P Leadley, C Wirth, and the TRY Consortium (Mar. 2020). The TRY Plant Trait Database - enhanced coverage and open access. *Global Change Biology*.

### MANUSCRIPTS

#### Under Review

1. Geange, SR, J von Oppen, **T Strydom**, M Boakye, TLJ Gauthier, R Gya, AH Halbritter, LH Jessup, SL Middleton, J Navarro, ME Pierfederici, J Chacón-Labella, S Cotner, W Farfan-Rios, BS Maitner, ST Michaletz, RJ Telford, BJ Enquist, and V Vandvik (*under review*). Next-generation field courses: integrating Open Science and online learning.

#### In Prep

1. Chacón-Labella, J, M Boakye, SR Geange, R Gya, AH Halbritter, SL Middleton, S Pastor, **T Strydom**, J von Oppen, W Farfan-Rios, BJ Enquist, and V Vandvik (*in prep*). From a crisis to an opportunity: Eight top tips for doing science in the Covid era.
2. **Strydom T** and PC le Roux (*in prep*). Bush encroachment in South Africa's montane grasslands: the impact of *Leucosidea sericea* on microclimate and vegetation.

### POPULAR ARTICLES

1. Cotner, S, BJ Enquist, J Chacon, BS Maitner, W Farfan-Rios, S Michaletz, J Garen, TLJ Gauthier, V Vandvik, R Gya, AH Halbritter, K Hošková, ME Pierfederici, NL Quinteros-Casaverde, ES Diaz, LH Jessup, **T Strydom**, and J von Oppen (2020). *International scientists need better support during global emergencies*. <https://www.timeshighereducation.com/blog/international-scientists-need-better-support-during-global-emergencies>.

## 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.

## Skillset

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**Statistical Analysis** generalized and linear mixed-effect models; multivariate analysis; Bayesian analysis; primarily using R

**Spatial Analysis** spatial analysis in ecology; ArcGIS; Maxent; GBIF

**Image Analysis** ImageJ; Adobe Photoshop

**Phylogenetic Analysis** Extracting and cleaning samples from GenBank; MEGA

**Academic Writing** assessed at various levels; peer-reviewed articles; literature reviews; research proposals; reports; popular articles

**Oral Communication** masters level course; presented in various settings

**Peer Review** as an assistant (PLOS ONE, 2018); second-round reviewer (Plant Ecology, 2019)

**Language Skills** English and Afrikaans as a native speaker; conversational in German; basic Swedish and Spanish

## 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