



Tanya Strydom

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TanyaS08 | [TanyaS_08](https://twitter.com/TanyaS_08)

Research Interests

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

Education

Master of Science: Ecology and Biodiversity

Stockholm, Sweden

STOCKHOLM UNIVERSITY

2018-20

- Advisor: K. Hylander, PhD
- 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: 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

Research Experience

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

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)
Website Development	content creation; front-end development (Adobe Illustrator/HTML/CSS/R Markdown)
Language Skills	English and Afrikaans as a native speaker; conversational in German; basic Swedish and Spanish

Internships

UiB Internship

UNIVERSITY OF BERGEN

2020

- Website development for the Plants Functional Courses website. This included content creation as well as some front end development

3rd year Undergraduate Mentorship Program

UNIVERSITY OF PRETORIA

2016

- Worked as an assistant within the M. Robertson lab. This included the sorting and identification of pitfall trap samples as well as extracting information from databases

Written Work

PEER-REVIEWED

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

MANUSCRIPTS IN PREP

1. Geange, S, J von Oppen, S Middleton, TL Gauthier, T Strydom, and RG and... (n.d.). *Field courses present opportunities to promote Open Science practices for ECR's*. in prep.
2. Strydom, T and PC le Roux (n.d.). *Bush encroachment in South Africa's montane grasslands: the impact of Leucosidea sericea on microclimate and vegetation*. in prep.

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

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

Peter C. le Roux, Ph.D.

ASSISTANT PROFESSOR OF ECOLOGY AND BIODIVERSITY, UNIVERSITY OF PRETORIA

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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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