



Tanya Strydom

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Research Interests

microclimates; species interactions; functional traits; ecoinformatics

Education

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

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.

Plant-pollinator interactions in different microsites

J. EHRLÉN, PHD AND A. TACK, PHD

2019

- 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

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

IMAGE.J; 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

PUBLICATIONS

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 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

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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