



Tanya Strydom

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Research Interests

microclimates; species interactions; functional traits; ecoinformatics

Education

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

Plant functional trait responses to elevation and fire

V. VANDVIK, PhD FROM THE UNIVERSITY OF BERGEN AND B. ENQUIST, PhD FROM ARIZONA UNIVERSITY

2020

- Attended the 5th Plants Functional Traits Course in Peru. Focused on experimental design, data collection and curation, and report writing, all within a collaborative work environment.

Plant vital rates along microclimate gradients.

K. HYLANDER, PhD

2019-20

- Masters degree research project which 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

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; SADOBE 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

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

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

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

kristoffer.hyllander@su.se

Sehoya Cotner, Ph.D.

PROFESSOR OF BIOLOGY TEACHING AND LEARNING, UNIVERSITY OF MINNESOTA

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