

MSc candidate in Biological Sciences (UCT)

Genome-size effects on plant hydraulic ecophysiology, habitat & phenology in Cape schoenoid sedges

Principal supervisor: Prof A.M. Muasya Co-supervisors: Prof G.A. Verboom & Prof A.G. West

BSc Hons in Biological Sciences (UCT) *With distinction*

Relating vascular plant species richness & environmental heterogeneity spatially in the GCFR & SWAFR

Supervisors: Prof M.D. Cramer & Prof G.A. Verboom

BSc in Ecology & Evolution, Applied Biology (UCT) *With distinction in both majors & the degree*

Publications

Van Mazijk, Cramer, & Verboom. Environmental heterogeneity explains contrasting plant species richness between the South African Cape & southwestern Australia.

J. Biogeogr. 48:1875–1888. DOI: 10.1111/jbi.14118.

2021

Elliott, **van Mazijk**, Barrett, Bruhl, Joly, Muthaphuli, Wilson, & Muasya. Global dispersal & diversification of the genus *Schoenus* (Cyperaceae) from the Western Australian biodiversity hotspot.

J. Syst. & Evol. 59(4):791–808. DOI: 10.1111/jse.12742

2021

Elliott, Laidler, Muasya, Muthaphuli & **van Mazijk**. Solving the sedge mystery. *Veld & Flora* 105(3):20–25.

2019

Cramer, Wootton, **van Mazijk** & Verboom. New regionally-modelled soil layers improve prediction of vegetation type relative to that based on global soil models.

Divers. & Distrib. 25(11):1736–1750. DOI: 10.1111/ddi.12973.

2019

Van Mazijk, Smyth, Weideman & West. Isotopic tracing of stormwater in the urban Liesbeek River.

Water SA 44(4):674–679. DOI: 10.4314/wsa.v44i4.16.

2018

Funding, awards & conferences

Attended MEDECOS (NRF sponsorship)

2022

Presented at IBS¹ ECBC²

2021

Candidate at iDiv³ Joint Recruitment Symposium

2020

Best Systematics MSc Presentation at

SAAB⁴-AMA⁵-SASSB⁶ (tie)

2019

Innovation Masters Scholarship (NRF)

2019

MSc Student Bursary (SAAB, inaugural recipient)

2018–2019

Once-Off Award (UCT)

2018

Travel grant for SAAB-AMA-SASSB (UCT)

2018

Dorothy Cameron Scholarship (UCT)

2018

Masters Research Scholarship (UCT)

2018

Innovation Honours Scholarship (NRF)

2017

Honours Scholarship (SAAB)

2017

Science Faculty Scholarship (UCT)

2015–2016

Teaching assistance

All for undergraduates unless stated

Angiosperm diversity

2018–2019, 2022

Data wrangling & manipulation in R

(Organiser & lead, Biological Sciences postgraduate workshop)

2019

Principles of ecology & evolution

2019–2020

Scientific study design & data analysis in R

2017–2020

Teaching Biodiversity for High School

Life Science Teachers (SDU⁷ short course)

2019

Stat. modelling in R (SEEC⁸-ACCESS⁹ short course)

2018

Introductory statistics in R

2016–2018

Professional affiliations

SASSB council student representative

2019–2021

SASSB student member

2018–

SAAB student member

2017–

Research assistance

Schoenus (Cyperaceae) field assistance, collections & hydroponics for Dr T.L. Elliott & Prof A.M. Muasya (UCT)

2018

Mimetes & *Leucospermum* (Proteaceae) population monitoring for Dr J.A. Slingsby (UCT, SAEON)

2017

Legume symbiotic rhizobia collections & culturing for Dr M. Dlodlu (University of Swaziland)

2015

References

All Dept. Biological Sciences (UCT)

Prof G. Anthony Verboom

tony.verboom@uct.ac.za

Prof Michael D. Cramer

michael.cramer@uct.ac.za

Prof A. Muthama Muasya

muthama.muasya@uct.ac.za

Prof Adam G. West

adam.west@uct.ac.za

Skills & misc.

Skills

Strong public speaker, visual design, teaching

Languages

English, Afrikaans, R, bash

Tools

R Markdown, LaTeX, git, GitHub, MS Office

Methods

Stat. modelling, data manipulation, GIS (in R)

¹International Biogeography Society

²Early Career Biogeographers Conference

³German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

⁴South African Association of Botanists

⁵African Mycological Association

⁶Southern African Society for Systematic Biology

⁷Schools Development Unit, UCT

⁸Centre for Statistics in Ecology, the Environment & Conservation, UCT

⁹Applied Centre for Climate & Earth Systems, NRF