

MSc candidate in Biological Sciences (UCT)

Principal supervisor: Prof A.M. Muasya

Co-supervisors: Prof G.A. Verboom & Prof A.G. West

BSc Hons in Biological Sciences (UCT) *With distinction* 2017

BSc in Ecology & Evolution, Applied Biology (UCT) 2016

With distinction in both majors & the degree

Skills

Strong speaker, design, data visualisation

Languages

English, Afrikaans, R, bash

Tools

R Markdown, L^AT_EX, git, GitHub, MS Office

Methods

Statistical modelling, data manipulation,
GIS (in R), functional programming

Publications

Van Mazijk , Cramer, & Verboom. Environmental heterogeneity explains contrasting plant species richness between the South African Cape & southwestern Australia. <i>Journal of Biogeography</i> 48:1875–1888.	2021
Elliott, van Mazijk , Barrett, Bruhl, Joly, Muthaphuli, Wilson, & Muasya. Global dispersal & diversification of the genus <i>Schoenus</i> (Cyperaceae) from the Western Australian biodiversity hotspot. <i>Journal of Systematics & Evolution</i> 59(4):791–808. DOI: 10.1111/jse.12742	2021
Elliott, Laidler, Muasya, Muthaphuli & van Mazijk . Solving the sedge mystery. <i>Veld & Flora</i> 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. <i>Diversity & Distributions</i> 25(11):1736–1750.	2019
DOI: 10.1111/ddi.12973.	
Van Mazijk , Smyth, Weideman & West. Isotopic tracing of stormwater in the urban Liesbeek River. <i>Water SA</i> 44(4):674–679. DOI: 10.4314/wsa.v44i4.16.	2018

Workshop instruction

Data wrangling & manipulation in R (Organiser, lead, for Dept. Biological Sciences, UCT)	Postgraduate	UCT Dorothy Cameron Scholarship	2018
Teaching Biodiversity for High School Life Science Teachers (Speaker, for SDU ¹)	2019	UCT Masters Research Scholarship	2018
Scientific study design & data analysis in R (Tutor, for SEEC ² -ACCESS ³)	2019	NRF Innovation Honours Scholarship	2017
		SAAB Honours Scholarship	2017
		UCT Science Faculty Scholarship	2015, 2016
	2018, 2019		

Teaching assistance

Angiosperm diversity	Undergraduate	SAAB Postgraduate Virtual Symposium	2022
Principles of ecology & evolution	2018, 2019, 2022	MEDECOS XVII (NRF sponsored virtual attendance)	2022
Scientific study design & data analysis in R	2019, 2020	IBS ⁴ Early Career Biogeographers Conference	2021
Introductory statistics in R	2017–2020	iDiv ⁵ Joint Recruitment Symposium	2020
	2016–2018	SAAB ⁶ -AMA ⁷ -SASSB ⁸ IVXV Joint Congress	2019

References

All Dept. Biological Sciences, UCT

Prof G. Anthony Verboom
Prof Michael D. Cramer
Prof A. Muthama Muasya

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Funding & awards

NRF Innovation Masters Scholarship	2019
SAAB MSc Student Bursary (inaugural recipient)	2018, 2019
UCT Once-Off Award	2018



Professional affiliations

SAAB	2017–
SASSB	2018–
(Student rep.)	2019–2021

¹Schools Development Unit, UCT

²Centre for Statistics in Ecology, the Environment & Conservation, UCT

³Applied Centre for Climate & Earth Systems, NRF

⁴International Biogeography Society

⁵German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

⁶South African Association of Botanists

⁷African Mycological Association

⁸Southern African Society for Systematic Biology

Research assistance

<i>Schoenus</i> (Cyperaceae) field assistance, collections & hydroponics for Dr T.L. Elliott & Prof A.M. Muasya (UCT)	2018
<i>Mimetes</i> & <i>Leucospermum</i> (Proteaceae) population monitoring for Dr J.A. Slingsby (UCT, SAEON)	2017
Legume symbiotic rhizobia collections & culturing for Dr M. Dludlu (University of Swaziland)	2015