

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

Funding & awards

NRF Innovation Masters Scholarship	2019	Data wrangling & manipulation in R (Organiser,	2019
SAAB MSc Student Bursary (inaugural recipient)	2018, 2019	lead, for Dept. Biological Sciences, UCT)	
UCT Once-Off Award	2018	Teaching Biodiversity for High School	2019
UCT Dorothy Cameron Scholarship	2018	Life Science Teachers (Speaker, for SDU ⁶)	
UCT Masters Research Scholarship	2018	Scientific study design & data analysis in R	
NRF Innovation Honours Scholarship	2017	(Tutor, for SEEC ⁷ -ACCESS ⁸)	2018, 2019
SAAB Honours Scholarship	2017		
UCT Science Faculty Scholarship	2015, 2016		

Conferences, talks & press

SAAB Postgraduate Virtual Symposium	2022	Angiosperm diversity	2018, 2019, 2022
MEDECOS XVII (NRF sponsored virtual attendance)	2022	Principles of ecology & evolution	2019, 2020
IBS ¹ Early Career Biogeographers Conference	2021	Scientific study design & data analysis in R	2017–2020
iDiv ² Joint Recruitment Symposium	2020	Introductory statistics in R	2016–2018
SAAB ³ -AMA ⁴ -SASSB ⁵ IVXV Joint Congress Best Systematics MSc Presentation (tied) (UCT Travel Grant for attendance)	2019		
The John Maytham Show, CapeTalk (Interview) <i>Harvesting Storm Water</i>	2018	Professional memberships	Undergraduate
Pint of Science Cape Town	2018	SAAB 2017–	

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

Research assistance

Schoenus (Cyperaceae) field assistance, collections & hydroponics for Dr T.L. Elliott & Prof A.M. Muasya (UCT)	2018
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¹International Biogeography Society

²German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

³South African Association of Botanists

⁴African Mycological Association

⁵Southern African Society for Systematic Biology

⁶Schools Development Unit, UCT

⁷Centre for Statistics in Ecology, the Environment & Conservation, UCT

⁸Applied Centre for Climate & Earth Systems, NRF

Mimetes & *Leucospermum* (Proteaceae) population monitoring for Dr J.A. Slingsby (UCT, SAEON)
Legume symbiotic rhizobia collections & culturing for Dr M. Dludlu (University of Swaziland)

2017
2015