

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. *Journal of Biogeography* 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. *Journal of Systematics & Evolution* 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. *Diversity & Distributions* 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

Workshop instruction

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

Teaching assistance

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

References

	All Dept. Biological Sciences, UCT	The John Maytham Show, CapeTalk (Interview)	2018
Prof G. Anthony Verboom	tony.verboom@uct.ac.za	Harvesting Storm Water	
Prof Michael D. Cramer	michael.cramer@uct.ac.za	Pint of Science Cape Town	2018
Prof A. Muthama Muasya	muthama.muasya@uct.ac.za		

Funding & awards

	SASSB council student representative	2019–2021
NRF Innovation Masters Scholarship	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

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

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

2017
2015