

Ruan van Mazijk

Research & Publishing Intern
C4 EcoSolutions



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Skills	Strong speaker, design, data visualisation	MSc in Biological Sciences (UCT)	2023
Languages	English, Afrikaans, R, bash	Under Profs Muasya, Verboom & West	
Tools	R Markdown, \LaTeX , git, GitHub, MS Office	BSc Hons in Biological Sciences (UCT)	2017
Methods	Statistical modelling, data manipulation, GIS (in R), functional programming	With distinction	
		BSc in Ecology & Evolution, Applied Biology (UCT)	2016
		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. <i>J. Biogeog.</i> 48. 10.1111/jbi.14118.	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>J. Syst. Evol.</i> 59(4). 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>Div. Distrib.</i> 25(11). 10.1111/ddi.12973.	2019
Van Mazijk , Smyth, Weideman & West. Isotopic tracing of stormwater in the urban Liesbeek River. <i>Water SA</i> 44(4). 10.4314/wsa.v44i4.16.	2018

Professional memberships

South Afr. Association of Botanists	2017–
Southern Afr. Society for Systematic Biology	2018–
↔ Council student representative	2019–2021

Workshop instruction

Data wrangling & manipulation in R (Organiser, lead, for Dept. Biological Sciences, UCT)	Postgraduate 2019
Teaching Biodiversity for High School Life Science Teachers (Speaker, for SDU ¹)	2019
Scientific study design & data analysis in R (Tutor, for SEEC ² -ACCESS ³)	2018, 2019

Teaching assistance

Angiosperm diversity	Undergraduate 2018, 2019, 2022
Principles of ecology & evolution	2019, 2020
Scientific study design & data analysis in R	2017–2020
Introductory statistics in R	2016–2018

References

	<i>All Dept. Biological Sciences, UCT</i>
Prof A. Muthama Muasya	muthama.muasya@uct.ac.za
Prof G. Anthony Verboom	tony.verboom@uct.ac.za
Prof Michael D. Cramer	michael.cramer@uct.ac.za

Funding & awards

NRF Innovation Masters Scholarship	2019
SAAB MSc Student Bursary (inaugural recipient)	2018, 2019
UCT Once-Off Award	2018
UCT Dorothy Cameron Scholarship	2018
UCT Masters Research Scholarship	2018
NRF Innovation Honours Scholarship	2017
SAAB Honours Scholarship	2017
UCT Science Faculty Scholarship	2015, 2016

Conferences, talks & press

SAAB Postgraduate Virtual Symposium	2022
MEDECOS XVII (NRF sponsored virtual attendance)	2022
IBS ⁴ Early Career Biogeographers Conference	2021
iDiv ⁵ Joint Recruitment Symposium	2020
SAAB-AMA-SASSB IXV Joint Congress	2019
Best Systematics MSc Presentation (tied) (UCT Travel Grant for attendance)	
satRday Cape Town (Attended)	2018
The John Maytham Show, CapeTalk (Interview) <i>Harvesting Storm Water</i>	2018
Pint of Science Cape Town	2018
Biodiversity & Environmental Change in the CFR ⁶	2017

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. Dlodlu (University of Swaziland)	2015

¹SDU: Schools Development Unit, UCT

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

³ACCESS: Applied Centre for Climate & Earth Systems, NRF

⁴IBS: International Biogeography Society

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

⁶CFR: Cape Floristic Region