

Ruan van Mazijk

Research, Publishing & Training Officer
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, L ^A T _E X, 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

Ismail, Duker, van Mazijk , Mills & Potts. The importance of ground-truthing for thicket restoration site-selection: distinguishing degraded solid thicket from natural thicket mosaics. <i>Ecol. Rest.</i>	In prep.
Ismail, van Mazijk , Duker & Mills. <i>Portulacaria afra</i> canopies support diverse understory plant growth-forms in southern African xeric succulent thicket. <i>J. Arid Env.</i>	In prep.
Mills & van Mazijk . Permutation tests to identify significant constraint or promotion within biological scatterplots. <i>Ecol. Evol.</i>	In prep.
Mills, van Mazijk , Allen & Strydom. Soil geochemistry & constraint of tree seedlings immediately after germination on <i>Macrotermes</i> termite mounds in the Kruger National Park, South Africa. <i>Oikos</i>	In rev.
Van Mazijk , West, Verboom, Elliott, Bureš & Muasya. Genome size variation in Cape schoenoid sedges (Cyperaceae: Schoeneae) & its ecophysiological consequences. <i>Am. J. Bot.</i>	In rev.
Mills, Duker, Lechmere-Oertel, van Mazijk & Potts. Science is the fuel required for lifting ecosystem restoration into the orbit of hundreds of millions of hectares. <i>Front. Cons. Sci.</i> 4. 10.3389/fcosc.2023.1283262	In press
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–	Principles of ecology & evolution	2019, 2020
Southern Afr. Society for Systematic Biology	2018–	Scientific study design & data analysis in R	2017–2020
→ Council student representative	2019–2021	Introductory statistics in R	2016–2018

Workshop instruction

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

Teaching assistance

Angiosperm diversity	Undergraduate
	2018, 2019, 2022

References

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

¹SDU: Schools Development Unit, UCT

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

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

Funding & awards			
UCT Postgraduate Publication Incentive Funding	2023	SAAB Postgraduate Virtual Symposium	2022
NRF Innovation Masters Scholarship	2019	MEDECOS XVII (NRF sponsored virtual attendance)	2022
SAAB MSc Student Bursary (inaugural recipient)	2018, 2019	IBS ⁵ Early Career Biogeographers Conference	2021
UCT Once-Off Award	2018	iDiv ⁶ Joint Recruitment Symposium	2020
UCT Dorothy Cameron Scholarship	2018	SAAB-AMA-SASSB IVXV Joint Congress	2019
UCT Masters Research Scholarship	2018	Best Systematics MSc Presentation (tied)	
NRF Innovation Honours Scholarship	2017	UCT Travel Grant for attendance	
SAAB Honours Scholarship	2017	satRday Cape Town (Attended)	2018
UCT Science Faculty Scholarship	2015, 2016	The John Maytham Show, CapeTalk (Interview)	2018
Conferences, talks & press		Harvesting Storm Water	
SASSB XVI (3 rd Best Student Presentation)	2023	Pint of Science Cape Town	2018
SASSB & GENUS ⁴ sponsored attendance		Biodiversity & Environmental Change in the CFR ⁷	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. Dludlu (University of Swaziland)	2015

⁴GENUS: DSI-NRF Centre of Excellence in Palaeosciences
⁵IBS: International Biogeography Society

⁶iDiv: German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig
⁷CFR: Cape Floristic Region