

Ruan van Mazijk

Technical Coordinator

C4 EcoSolutions & TAG International

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Ecologist, evolutionary biologist,
botanist, data visualiser, writer

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Languages	English (native), Afrikaans (fluent), R (9 years)	2023
Tools	R Markdown, L ^A T _E X, bash, git, GitHub, MS Office	
Skills	public speaking, technical writing, copyediting, statistical modelling, data manipulation, visualisation, GIS (in R), phylogeny inference & comparative methods	
	MSc in Biological Sciences (UCT) Under Profs Muasya, Verboom & West	2017
	BSc Hons in Biological Sciences (UCT) With distinction	
	BSc in Ecology & Evolution, Applied Biology (UCT) With distinction in both majors & the degree	2016

Publications

Mills & van Mazijk . Permutation tests to identify significant constraint or promotion within biological scatterplots. <i>Ecol. Evol.</i> 14. 10.1002/ece3.70584	2024
Jiménez-Mejías, Manzano, Gowda, Krell, Lin, Martín-Bravo et al. Protecting stable biological nomenclatural systems enables universal communication: A collective international appeal. <i>BioScience</i> . 74(7). 10.1093/biosci/biae043.	2024
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>Ecol. Evol.</i> 14(5). 10.1002/ece3.11348.	2024
Van Mazijk , West, Verboom, Elliott, Bureš & Muasya. Genome size variation in Cape schoenoid sedges (Cyperaceae: Schoeneae) & its ecophysiological consequences. <i>Am. J. Bot.</i> 111(8). 10.1002/ajb2.16315	2024
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.	2023
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 → Council student representative	2018–2021

Teaching assistance

Undergraduate
2018, 2019, 2022
2019, 2020
2017–2020
2016–2018

Angiosperm diversity
Principles of ecology & evolution
Scientific study design & data analysis in R
Introductory statistics in R

Workshop instruction

Data wrangling & manipulation in R (Organiser, lead, for Dept. Biological Sciences, UCT)	Postgraduate
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

References

C4 EcoSolutions (Pty) Ltd.	
Dr Anthony J. Mills	anthony.mills@c4es.co.za
Barbara Ikin	barbara.ikin@c4es.co.za
Dr Robbert Duker	robert.duker@c4es.co.za
Dept. Biological Sciences, UCT	
Prof A. Muthama Muasya	muthama.muasya@uct.ac.za
Prof G. Anthony Verboom	tony.verboom@uct.ac.za
Prof Adam G. West	adam.west@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
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

SASSB XVI (3 rd Best Student Presentation)	2023
SASSB & GENUS ⁴ sponsored attendance	
SAAB Postgraduate Virtual Symposium	2022
MEDECOS XVII (NRF sponsored virtual attendance)	2022
IBS ⁵ Early Career Biogeographers Conference	2021
iDiv ⁶ Joint Recruitment Symposium	2020
SAAB-AMA-SASSB IVXV Joint Congress	2019
Best Systematics MSc Presentation (tied)	
UCT Travel Grant for attendance	
satRday Cape Town (Attended)	2018
The John Maytham Show, CapeTalk (Interview)	2018
Harvesting Storm Water	
Pint of Science Cape Town	2018
Biodiversity & Environmental Change in the CFR ⁷	2017

Research assistance

Schoenus (Cyperaceae) field assistance, collections & hydroponics for Dr T.L. Elliott & Prof A.M. Muasya (UCT)	2018
Mimetes & Leucospermum (Proteaceae) population monitoring for Dr J.A. Slingsby (UCT, SAEON)	2017
Legume symbiotic rhizobia collections & culturing for Dr M. Dladlu (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