Ruan van Mazijk Curriculum vitae

MSc candidate in Biological Sciences (UCT)

Genome-size effects on plant hydraulic ecophysiology, habitat & phenology in Cape schoenoid sedges 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

ruanvmazijk@gmail.com, (+27) 72 516 7570

Relating vascular plant species richness & environmental heterogeneity spatially in the GCFR & SWAFR Supervisors: Prof M.D. Cramer & Prof G.A. Verboom

BSc in Ecology & Evolution, Applied Biology (UCT) With distinction in both majors & the degree

2016

Publications

Van Mazijk, Cramer, & Verboom. 2021. Environmental heterogeneity explains contrasting plant species richness between the South African Cape and southwestern Australia. *J. Biogeogr.* 48:1875–1888. DOI: 10.1111/jbi.14118.

Elliott, **van Mazijk**, Barrett, Bruhl, Joly, Muthaphuli, Wilson, & Muasya. 2021. Global dispersal and diversification of the genus *Schoenus* (Cyperaceae) from the Western Australian biodiversity hotspot. *J. Syst. & Evol.* 59(4):791–808. DOI: 10.1111/jse.12742

Elliott, Laidler, Muasya, Muthaphuli & **van Mazijk**. 2019. Solving the sedge mystery. *Veld & Flora* 105(3):20–25. (Popular article)

Cramer, Wootton, **van Mazijk** & Verboom. 2019. New regionally-modelled soil layers improve prediction of vegetation type relative to that based on global soil models. *Divers. Distrib.* 25(11):1736–1750. DOI: 10.1111/ddi.12973.

Van Mazijk, Smyth, Weideman & West. 2018. Isotopic tracing of stormwater in the urban Liesbeek River. *Water SA* 44(4):674–679. DOI: 10.4314/wsa.v44i4.16.

Funding, awards & conferences		Teaching assistance All for undergrad. unless sta	ated	
Student sponsorship to attend MEDECOS (NRF	⁼¹) 2022	Angiosperm diversity 2018-	-2019, 2022	
Presented at IBS ² ECBC ³ 2021		Data wrangling & manipulation in R		
Candidate at iDiv ⁴ Joint Recruitment Symposiu	ım 2020	(Organised & lead workshop)	2019	
Best Systematics MSc Presentation at		Principles of ecology & evolution	2019–2020	
SAAB ⁵ -AMA ⁶ -SASSB ⁷ (tie)	2019		2017–2020	
Innovation Masters Schol. (NRF)	2019	Teaching Biodiversity for High School Life		
MSc Student Bursary (SAAB)	2018–2019	Science Teachers (SDU ⁸ short course)	2019	
Once-Off Award (UCT)	2018	Stat. modelling in R (SEEC9-ACCESS10 short cours	se) 2018	
Travel grant for SAAB-AMA-SASSB (UCT)	2018	Introductory statistics in R	2016–2018	
Dorothy Cameron Schol. (UCT)	2018	Professional affiliations		
Masters Research Schol. (UCT)	2018	SASSB council member, student representative	2019–	
Innovation Honours Schol. (NRF)	2017	SASSB student member	2018–	
Honours Schol. (SAAB)	2017	SAAB student member	2017–	
Science Faculty Schol. (UCT)	2015–2016		_0	

Research assistance

Schoenus spp. (Cyperaceae: Schoeneae) collections & growth for Dr T.L. Elliott & Prof A.M. Muasya (UCT)		
Mimetes spp. & Leucospermum spp. (Proteaceae) population monitoring for Dr J.A. Slingsby (SAEON ¹¹ , SEEC)	2017	
Legume symbiotic rhizobia collections & culturing for Dr M. Dludlu (University of Swaziland)	2015	

References	All from the Dept.	Biological Sciences	(UCT)	Skills & misc.
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Prof G. Anthony Verboom	tony.verboom@uct.ac.za	Skills	Strong public speaker, visual design, teaching
Prof Michael D. Cramer	michael.cramer@uct.ac.za	Languages	English, Afrikaans, R, bash
Prof A. Muthama Muasya	muthama.muasya@uct.ac.za	Tools	R Markdown, LaTeX, git, GitHub, MS Offce
Prof Adam G. West	adam.west@uct.ac.za	Methods	Stat. modelling, data manipulation, GIS (in R)

¹National Research Foundation (South Africa)

²International Biogeography Society

³Early Career Biogeographers Conference

⁴German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

⁵South African Association of Botanists

⁶African Mycological Association

⁷Southern African Society for Systematic Biology

⁸UCT Schools Development Unit

⁹UCT Centre for Statistics in Ecology, the Environment & Conservation

¹⁰NRF Applied Centre for Climate & Earth Systems

¹¹South African Environmental Observation Network