Ruan van Mazijk Curriculum vitae

MSc candidate in Biological Sciences (UCT)

Genome-size effects on plant ecophysiology & 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 Supervisors: Prof M.D. Cramer & Prof G.A. Verboom

BSc in Ecology & Evolution, Applied Biology (UCT) 2016
With distinction in both majors & the degree

Skills
Languages
Tools
R Markdown, Languages
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. J. Biogeogr. 48:1875–1888. DOI: 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):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. *Divers. & Distrib. 25(11):1736–1750. DOI: 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):674–679. DOI: 10.4314/wsa.v44i4.16.	2018

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

Teaching assistanceUndergraduate

Angiosperm diversity	2018, 2019, 2022
Principles of ecology & evolution	2019, 2020
Scientific study design & data analysis in 1	R 2017–2020
Introductory statistics in R	2016–2018

References All Dept. Biological Sciences, UCT

Prof G. Anthony Verboom tony.verboom@uct.ac.za
Prof Michael D. Cramer michael.cramer@uct.ac.za
Prof A. Muthama Muasya muthama.muasya@uct.ac.za

Conferences, talks & press

SAAB Postgraduate Virtual Symposium (Presenter) MEDECOS XVII (NRF sponsored virtual attendance) IBS ⁴ Early Career Biogeographers Conf. (Presenter) iDiv ⁵ Joint Recruitment Symposium (Candidate) SAAB ⁶ -AMA ⁷ -SASSB ⁸ IVXV Joint Congress	2022 2022 2021 2020 2019
Best Systematics MSc Presentation (tied) (UCT Travel Grant for attendance)	
The John Mayhtam Show, CapeTalk (Interview) Harvesting Storm Water	2018
Pint of Science Cape Town (Presenter)	2018

Professional affiliations

Funding & awards SASSB council student representative SASSB student member 2019–2021 SASSB student member 2018– 2017– 2017–

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

Research assistance

Schoenus (Cyperaceae) field assistance, collections & hydroponics for Dr T.L. Elliott & Prof A.M. Muasya (UCT)

Mimetes & Leucospermum (Proteaceae) population monitoring for Dr J.A. Slingsby (UCT, SAEON)

Legume symbiotic rhizobia collections & culturing for Dr M. Dludlu (University of Swaziland)

201820172015