

# Ruan van Mazijk

Curriculum vitae



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**MSc candidate** in Biological Sciences (UCT)

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

**BSc** in Ecology & Evolution, Applied Biology (UCT) 2016

*With distinction in both majors & the degree*

## Skills

Strong speaker, design, data visualisation

## Languages

English, Afrikaans, R, bash

## Tools

R Markdown, L<sup>A</sup>T<sub>E</sub>X, git, GitHub, MS Office

## Methods

Statistical modelling, data manipulation,  
GIS (in R), functional programming

## Publications

<b>Van Mazijk</b> , Cramer, & Verboom. Environmental heterogeneity explains contrasting plant species richness between the South African Cape & southwestern Australia. <i>Journal of Biogeography</i> 48:1875–1888.	2021
DOI: 10.1111/jbi.14118.	
Elliott, <b>van Mazijk</b> , Barrett, Bruhl, Joly, Muthaphuli, Wilson, & Muasya. Global dispersal & diversification of the genus <i>Schoenus</i> (Cyperaceae) from the Western Australian biodiversity hotspot. <i>Journal of Systematics &amp; Evolution</i> 59(4):791–808. DOI: 10.1111/jse.12742	2021
Elliott, Laidler, Muasya, Muthaphuli & <b>van Mazijk</b> . Solving the sedge mystery. <i>Veld &amp; Flora</i> 105(3):20–25.	2019
Cramer, Wootton, <b>van Mazijk</b> & Verboom. New regionally-modelled soil layers improve prediction of vegetation type relative to that based on global soil models. <i>Diversity &amp; Distributions</i> 25(11):1736–1750.	2019
DOI: 10.1111/ddi.12973.	
<b>Van Mazijk</b> , 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

## Professional memberships

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

## 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

## 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 <sup>1</sup> )	2019
Scientific study design & data analysis in R (Tutor, for SEEC <sup>2</sup> -ACCESS <sup>3</sup> )	2018, 2019

## Conferences, talks & press

SAAB Postgraduate Virtual Symposium	2022
MEDECOS XVII (NRF sponsored virtual attendance)	2022
IBS <sup>4</sup> Early Career Biogeographers Conference	2021
iDiv <sup>5</sup> Joint Recruitment Symposium	2020
SAAB-AMA-SASSB IVXV Joint Congress	2019
Best Systematics MSc Presentation (tied) (UCT Travel Grant for attendance)	
The John Maytham Show, CapeTalk (Interview)	2018
Harvesting Storm Water	
Pint of Science Cape Town	2018

## 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

All Dept. Biological Sciences, UCT	
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

## 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

<sup>1</sup>SDU: Schools Development Unit, UCT

<sup>2</sup>SEEC: Centre for Statistics in Ecology, the Environment & Conservation, UCT

<sup>3</sup>ACCESS: Applied Centre for Climate & Earth Systems, NRF

<sup>4</sup>IBS: International Biogeography Society

<sup>5</sup>iDiv: German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig