

# Ruan van Mazijk

Curriculum vitae



ruanvmazijk@gmail.com

(+27) 72 516 7570

(+27) 21 650 3684

@rvanmazijk

## 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
Teaching Biodiversity for High School	2019
Life Science Teachers (Speaker, for SDU <sup>1</sup> )	
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)	
satRday Cape Town (Attended)	2018
The John Maytham Show, CapeTalk (Interview) <i>Harvesting Storm Water</i>	2018
Pint of Science Cape Town	2018
Biodiversity & Environmental Change in the CFR <sup>6</sup>	2017

## Teaching assistance

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

<sup>6</sup>CFR: Cape Floristic Region