Ruan van Mazijk *Curriculum vitae*

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

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. Supervisors: Prof M.D. Cramer & Prof G.A. Verboom* 2017

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

Publications

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

Elliott, **van Mazijk**, Barrett, Bruhl, Joly, Muthaphuli, Wilson, & Muasya. Global dispersal & diversification of 2021
  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**. Solving the sedge mystery. *Veld & Flora* 105(3):20–25. 2019

Cramer, Wootton, **van Mazijk** & Verboom. New regionally-modelled soil layers improve prediction of 2019
  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. Isotopic tracing of stormwater in the urban Liesbeek River. 2018
  Water SA 44(4):674–679. DOI: 10.4314/wsa.v44i4.16.

Misc.

Skills	Strong speaker, design, data visualisation
Languages	English, Afrikaans, R, bash
Tools	R Markdown, LaTeX, git, GitHub, MS Office
Methods	Statistical modelling, data manipulation, GIS (in R), functional programming

Workshop instruction   *Postgraduate*

Data wrangling & manipulation in R (Organiser, lead)   2019
  (For Dept. Biological Sciences, UCT)
Teaching Biodiversity for High School   2019
  Life Science Teachers (SDU[1] short course)
Scientific study design & data analysis in R
  (SEEC[2]-ACCESS[3] short course)   2018, 2019

Teaching assistance   *Undergraduate*

Angiosperm diversity	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 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

Funding & awards

Innovation Masters Scholarship (NRF)	2019
MSc Student Bursary (SAAB, inaugural recipient)	2018, 2019
Once-Off Award (UCT)	2018
Dorothy Cameron Scholarship (UCT)	2018
Masters Research Scholarship (UCT)	2018
Innovation Honours Scholarship (NRF)	2017
Honours Scholarship (SAAB)	2017
Science Faculty Scholarship (UCT)	2015, 2016

Conferences & talks

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

Professional affiliations

SASSB council student representative	2019–2021
SASSB student member	2018–
SAAB student member	2017–

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[1]Schools Development Unit, UCT
[2]Centre for Statistics in Ecology, the Environment & Conservation, UCT
[3]Applied Centre for Climate & Earth Systems, NRF
[4]International Biogeography Society
[5]German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig
[6]South African Association of Botanists
[7]African Mycological Association
[8]Southern African Society for Systematic Biology

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. Dludlu (University of Swaziland) 2015