

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*

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*

Publications

Van Mazijk, Cramer, & Verboom. Environmental heterogeneity explains contrasting plant species richness between the South African Cape & southwestern Australia. 2021

J. Biogeogr. 48:1875–1888. DOI: 10.1111/jbi.14118.

Elliott, **van Mazijk**, Barrett, Bruhl, Joly, Muthaphuli, Wilson, & Muasya. Global dispersal & diversification of the genus *Schoenus* (Cyperaceae) from the Western Australian biodiversity hotspot. 2021

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 vegetation type relative to that based on global soil models. 2019

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.

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

Prof Michael D. Cramer

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Prof A. Muthama Muasya

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Conferences

SAAB Postgraduate Virtual Symposium (Presenter) 2022

MEDECOS XVII (NRF sponsored virtual attendance) 2022

IBS¹ Early Career Biogeographers Conf. (Presenter) 2021

iDiv² Joint Recruitment Symposium (Candidate) 2020

SAAB³-AMA⁴-SASSB⁵ IXV Joint Congress 2019

Best Systematics MSc Presentation (tied)

(UCT Travel Grant for attendance)

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

Skills & misc.

Skills *Strong public speaker, visual design, teaching*

Languages *English, Afrikaans, R, bash*

Tools *R Markdown, LaTeX, git, GitHub, MS Office*

Methods *Stat. modelling, data manipulation, GIS (in R)*

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 (SDU⁶ short course)

Scientific study design & data analysis in R
(SEEC⁷-ACCESS⁸ short course) 2018, 2019

Professional affiliations

References

All Dept. Biological Sciences, UCT

Prof G. Anthony Verboom tony.verboom@uct.ac.za

SASSB council student representative 2019–2021

SASSB student member 2018–

SAAB student member 2017–

¹ International Biogeography Society

² German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

³ South African Association of Botanists

⁴ African Mycological Association

⁵ Southern African Society for Systematic Biology

⁶ Schools Development Unit, UCT

⁷ Centre for Statistics in Ecology, the Environment & Conservation, UCT

⁸ Applied Centre for Climate & Earth Systems, NRF

Research assistance

<i>Schoenus</i> (Cyperaceae) field assistance, collections & hydroponics for Dr T.L. Elliott & Prof A.M. Muasya (UCT)	2018
<i>Mimetes</i> & <i>Leucospermum</i> (Proteaceae) population monitoring for Dr J.A. Slingsby (UCT, SAEON)	2017
Legume symbiotic rhizobia collections & culturing for Dr M. Dlodlu (University of Swaziland)	2015