

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.

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 *Schoenus* (Cyperaceae) from the Western Australian biodiversity hotspot.

J. Syst. & Evol. 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.

Water SA 44(4):674–679. DOI: 10.4314/wsa.v44i4.16.

2018

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

SAAB Postgraduate Virtual Symposium (Presenter)	2022
MEDECOS XVII (NRF sponsored virtual attendance)	2022
IBS ¹ Early Career Biogeographers Conf. (Presenter)	2021
iDiv ² Joint Recruitment Symposium (Candidate)	2020
SAAB ³ -AMA ⁴ -SASSB ⁵ IVXV 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

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 ⁶ short course)	
Stat. modelling in R (SEEC ⁷ -ACCESS ⁸ short course)	2018

Skills & misc.

Skills	<i>Strong public speaker, visual design, teaching</i>
Languages	<i>English, Afrikaans, R, bash</i>
Tools	<i>R Markdown, LaTeX, git, GitHub, MS Office</i>
Methods	<i>Stat. modelling, data manipulation, GIS (in R)</i>

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

Professional affiliations

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

Research assistance

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

<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