

MSc candidate in Biological Sciences (UCT)
Genome-size effects on plant ecophysiology & phenology in Cape schoenoid sedges
 Principal supervisor: Prof A.M. Muasya
 Co-supervisors: Prof G.A. Verboom & Prof A.G. West

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

BSc Hons in Biological Sciences (UCT) *With distinction* 2017
 Supervisors: Prof M.D. Cramer & Prof G.A. Verboom

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

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 (SDU¹ short course)
- Scientific study design & data analysis in R 2018, 2019
 (SEEC²-ACCESS³ short course)

- 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

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

Conferences, talks & press

- SAAB Postgraduate Virtual Symposium (Presenter) 2022
 MEDECOS XVII (NRF sponsored virtual attendance) 2022
 IBS⁴ Early Career Biogeographers Conf. (Presenter) 2021
 iDiv⁵ Joint Recruitment Symposium (Candidate) 2020
 SAAB⁶-AMA⁷-SASSB⁸ IXV Joint Congress 2019
 Best Systematics MSc Presentation (tied)
 (UCT Travel Grant for attendance)
 The John Mayhtam Show, CapeTalk (Interview) 2018
Harvesting Storm Water
 Pint of Science Cape Town (Presenter) 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

Professional affiliations

Funding & awards

- Innovation Masters Scholarship (NRF) 2019

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

¹Schools Development Unit, UCT

²Centre for Statistics in Ecology, the Environment & Conservation, UCT

³Applied Centre for Climate & Earth Systems, NRF

⁴International Biogeography Society

⁵German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

⁶South African Association of Botanists

⁷African Mycological Association

⁸Southern African Society for Systematic Biology

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