

Education *All at the University of Cape Town (UCT)*

MSc candidate in Biological Sciences	UCT
<i>Genome-size effects on plant hydraulic ecophysiology, habitat & phenology in Cape schoenoid sedges</i>	
Principal supervisor: Prof A.M. Muasya. Co-supervisors: A/Prof G.A. Verboom & A/Prof A.G. West	
BSc Hons in Biological Sciences <i>With distinction</i>	UCT 2017
<i>Relating vascular plant species richness & environmental heterogeneity spatially in the GCFR & SWAFR</i>	
Supervisors: Prof M.D. Cramer & A/Prof G.A. Verboom	
BSc in Ecology & Evolution, Applied Biology <i>With distinction in both majors & the degree</i>	UCT 2016

Publications

- Van Mazijk, R.**, Cramer, M.D. & Verboom, G.A. (2021). Environmental heterogeneity explains contrasting plant species richness between the South African Cape and southwestern Australia. *J. Biogeogr.* 48:1875–1888. DOI: 10.1111/jbi.14118.
- Elliott, T.L., **van Mazijk, R.**, Barrett, R.L., Bruhl, J.J., Joly, S., Muthaphuli, N., Wilson, K.L. & Muasya, A.M. (2021). Global dispersal and diversification of the genus *Schoenus* (Cyperaceae) from the Western Australian biodiversity hotspot. *J. Syst. & Evol.* 59(4):791–808. DOI: 10.1111/jse.12742
- Elliott, T.L., Laidler, G., Muasya, A.M., Muthaphuli, N. & **van Mazijk, R.** (2019). Solving the sedge mystery. *Veld & Flora* 105(3):20–25. (Popular article)
- Cramer, M.D., Wootton, L.M., **van Mazijk, R.** & Verboom, G.A. (2019). 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.
- Van Mazijk, R.**, Smyth, L.K., Weideman, E.A. & West, A.G. (2018). Isotopic tracing of stormwater in the urban Liesbeek River. *Water SA* 44(4):674–679. DOI: 10.4314/wsa.v44i4.16.

Funding, awards & conferences

Student Sponsorship to attend MEDECOS XVII (NRF ¹)	
2022	
Presented at IBS ² ECBC ³	2021
Candidate at iDiv ⁴ Joint Recruitment Symposium	2020
Best Systematics MSc Presentation at SAAB ⁵ -AMA ⁶ -SASSB ⁷ IVXV (tie)	2019
Innovation Masters Schol. (NRF)	2019
MSc Student Bursary (SAAB)	2018–2019
Once-Off Award (UCT)	2018
Travel grant for SAAB-AMA-SASSB IVXV (UCT)	2018
Dorothy Cameron Schol. (UCT)	2018
Masters Research Schol. (UCT)	2018
Innovation Honours Schol. (NRF)	2017
Honours Schol. (SAAB)	2017
Science Faculty Schol. (UCT)	2015–2016

Total ca. US\$18,800 or €16,800

Teaching assistance *All for undergrad. unless stated*

Angiosperm diversity	2018–2019, 2022
Data wrangling & manipulation in R	
(Organised & lead workshop)	2019
Principles of ecology & evolution	2019–2020
Scientific study design & data analysis in R	2017–2020
Teaching Biodiversity for High School Life	
Science Teachers (SDU ⁸ short course)	2019
Stat. modelling in R (SEEC ⁹ -ACCESS ¹⁰ short course)	2018
Intro. statistics in R	2016–2018

Professional affiliations

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

Research assistance

<i>Schoenus</i> spp. (Cyperaceae: Schoeneae) collections & growth for Dr T.L. Elliott & Prof A.M. Muasya (UCT)	2018
<i>Mimetes</i> spp. & <i>Leucospermum</i> spp. (Proteaceae) population monitoring for Dr J.A. Slingsby (SAEON ¹¹ , SEEC)	2017
Legume symbiotic rhizobia collections & culturing for Dr M. Dlodlu (University of Swaziland)	2015

¹National Research Foundation (South Africa)

²International Biogeography Society

³Early Career Biogeographers Conference

⁴German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

⁵South African Association of Botanists

⁶African Mycological Association

⁷Southern African Society for Systematic Biology

⁸UCT Schools Development Unit

⁹UCT Centre for Statistics in Ecology, the Environment & Conservation

¹⁰DST-NRF Applied Centre for Climate & Earth Systems

¹¹South African Environmental Observation Network

References

All from the Dept. Biological Sciences (UCT)

A/Prof G.A. Verboom	tony.verboom@uct.ac.za
Prof M.D. Cramer	michael.cramer@uct.ac.za
Prof A.M. Muasya	muthama.muasya@uct.ac.za
A/Prof A.G. West	adam.west@uct.ac.za

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>