

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

MSc candidate in Biological Sciences	2018–
<i>Genome-size effects on plant hydraulic ecophysiology, habitat & phenology in Cape schoenoid sedges</i>	
Principal supervisor: A/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>	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>	2016

Publications

- Van Mazijk, R.**, Cramer, M.D. & Verboom, G.A. (In prep.). The role of environmental heterogeneity in determining plant species richness in the GCFR & SWAFR. *J. Biogeogr.*
- 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.* 00:1–15. 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

Best Systematics MSc Presentation at SAAB ¹ -AMA ² -SASSB ³ IVXV ⁴ (tie)	2019
Innovation Masters Schol. (DST ⁵ -NRF ⁶)	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. (DST-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*

Data wrangling & manipulation in R (<i>Organised & lead workshop</i>)	2019
Principles of ecology & evolution	2019–
Angiosperm diversity	2018–
Scientific study design & data analysis in R	2017–
Teaching Biodiversity for High School Life Science Teachers (SDU ⁷ short course)	2019
Stat. modelling in R (SEEC ⁸ -ACCESS ⁹ short course)	2018
Intro. statistics in R	2016–2018

Professional affiliations

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

Research assistance

<i>Schoenus</i> spp. (Cyperaceae: Schoeneae) collections & growth for Dr T.L. Elliott & A/Prof A.M. Muasya (UCT)	2018
<i>Mimetes</i> spp. & <i>Leucospermum</i> spp. (Proteaceae) population monitoring for Dr J.A. Slingsby (SAEON ¹⁰ , SEEC)	2017
Legume symbiotic rhizobia collections & culturing for Dr M. Dlodlu (University of Swaziland)	2015

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>

¹ South African Association of Botanists

² African Mycological Association

³ Southern African Society for Systematic Biology

⁴ 45th Annual SAAB, AMA & SASSB Joint Congress

⁵ Department of Science & Technology (South Africa)

⁶ National Research Foundation (South Africa)

⁷ UCT Schools Development Unit

⁸ UCT Centre for Statistics in Ecology, the Environment & Conservation

⁹ DST-NRF Applied Centre for Climate & Earth Systems

¹⁰ South African Environmental Observation Network