

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

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

Best Systematics MSc Presentation at SAAB <sup>1</sup> -AMA <sup>2</sup> -SASSB <sup>3</sup> IVXV <sup>4</sup> (tie)	2019
Innovation Masters Schol. (DST <sup>5</sup> -NRF <sup>6</sup> )	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	2019
(Organised & lead workshop)	2019
Principles of ecology & evolution	2019–2020
Angiosperm diversity	2018–2019
Scientific study design & data analysis in R	2017–2020
Teaching Biodiversity for High School Life	
Science Teachers (SDU <sup>7</sup> short course)	2019
Stat. modelling in R (SEEC <sup>8</sup> -ACCESS <sup>9</sup> 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 & A/Prof A.M. Muasya (UCT)	2018
<i>Mimetus</i> spp. & <i>Leucospermum</i> spp. (Proteaceae) population monitoring for Dr J.A. Slingsby (SAEON <sup>10</sup> , 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	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)

<sup>1</sup>South African Association of Botanists

<sup>2</sup>African Mycological Association

<sup>3</sup>Southern African Society for Systematic Biology

<sup>4</sup>45<sup>th</sup> Annual SAAB, AMA & SASSB Joint Congress

<sup>5</sup>Department of Science & Technology (South Africa)

<sup>6</sup>National Research Foundation (South Africa)

<sup>7</sup>UCT Schools Development Unit

<sup>8</sup>UCT Centre for Statistics in Ecology, the Environment & Conservation

<sup>9</sup>DST-NRF Applied Centre for Climate & Earth Systems

<sup>10</sup>South African Environmental Observation Network