

## 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 & conferences

Student sponsorship to attend MEDECOS (NRF)

2022

Presented at IBS<sup>1</sup> ECBC<sup>2</sup>

2021

Candidate at iDiv<sup>3</sup> Joint Recruitment Symposium

2020

Best Systematics MSc Presentation at

SAAB<sup>4</sup>-AMA<sup>5</sup>-SASSB<sup>6</sup> (tie)

2019

Innovation Masters Scholarship (NRF)

2019

MSc Student Bursary (SAAB)

2018–2019

Once-Off Award (UCT)

2018

Travel grant for SAAB-AMA-SASSB (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 *All for undergraduates 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<sup>7</sup> short course)

2019

Stat. modelling in R (SEEC<sup>8</sup>-ACCESS<sup>9</sup> short course)

2018

Introductory statistics in R

2016–2018

## Professional affiliations

SASSB council member, student representative

2019–

SASSB student member

2018–

SAAB student member

2017–

## Research assistance

*Schoenus* spp. (Cyperaceae: Schoeneae) collections & growth for Dr T.L. Elliott & Prof A.M. Muasya (UCT)

2018

*Mimetes* spp. & *Leucospermum* spp. (Proteaceae) population monitoring for Dr J.A. Slingsby (SAEON, SEEC)

2017

Legume symbiotic rhizobia collections & culturing for Dr M. Dlodlu (University of Swaziland)

2015

## References *All from the Dept. Biological Sciences (UCT)*

Prof G. Anthony Verboom

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Prof Michael D. Cramer

michael.cramer@uct.ac.za

Prof A. Muthama Muasya

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Prof Adam 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>International Biogeography Society

<sup>2</sup>Early Career Biogeographers Conference

<sup>3</sup>German Centre for Integrative Biodiversity Research, Halle-Jena-Leipzig

<sup>4</sup>South African Association of Botanists

<sup>5</sup>African Mycological Association

<sup>6</sup>Southern African Society for Systematic Biology

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

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

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