

Ruan van Mazijk, *Curriculum vitae*

MSc candidate, Dept. of Biological Sciences, University of Cape Town

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I am curiosity driven, interested in plant & animal phylogenetics & systematics, community ecology, plant ecophysiology, & the effects of climate change on the world's biota. I enjoy applying numerically & statistically grounded methods in these fields. My long-term goals are careers in research, academia, & teaching.

Education

MSc candidate (Dept. of Biological Sciences, University of Cape Town) (2018–present), on *The effects of genome size on plant hydraulic ecophysiology, habitat & phenology in Cape Schoenoid sedges (Cyperaceae: Schoeneae)*. Principle supervisor: A/Prof A.M. Muasya. Co-supervisors: A/Prof G.A. Verboom & A/Prof A.G. West.

BSc Hons in Biological Sciences (UCT) (2017), on *The role of environmental heterogeneity in determining plant species richness in the Greater Cape Floristic Region & the Southwest Australia Floristic Region*. Supervisors: A/Prof M.D. Cramer & A/Prof G.A. Verboom. Graduated with distinction.

BSc (UCT) (2016). Majors: Ecology & Evolution, Applied Biology. Distinction in both majors & the degree as a whole.

Publications

The role of environmental heterogeneity in determining plant species richness in the Greater Cape Floristic Region & the Southwest Australia Floristic Region (In preparation), with A/Prof M.D. Cramer & A/Prof G.A. Verboom.

Isotopic analysis of Liesbeeck River stream-water during a high-intensity winter-rainfall event, in order to ascertain the water's source (In review), with L.K. Smythe, E. Weideman, & A/Prof A.G. West.

Professional affiliations

South African Association of Botanists (SAAB) member (2017–present).

Southern African Society for Systematic Biology (SASSB) (2018–present).

Golden Key International Honour Society member (2015–present).

Funding & awards

Scholarships & bursaries

South African Association of Botanists (SAAB) MSc Student Bursary (inaugural recipient) (R20,000 p.a.) (2018, 2019).

Dorothy Cameron Scholarship (R20,000 p.a.) (2018).

UCT Masters Research Scholarship (R25,000 p.a.) (2018).

DST-NRF Innovation Honours Scholarship (R60,000 p.a.) (2017).

South African Association of Botanists (SAAB) Honours Scholarship (R10,000 p.a.) (2017).
UCT Science Faculty Scholarship (R15,000 p.a.) (2015, 2016).

Awards & honours

Dick & Dorothy Borchers Prize (R1,000 p.a.) (UCT) (2015).
Dean's Merit List (UCT) (2014–2016).
Class Medals (top of the class) × 5 (UCT) (2014–2016).

Leadership experience

Departmental Representative for the Dept. of Biological Sciences (UCT) (2016).
Class Representative for three Biological Sciences undergraduate courses at UCT (2015–2016).

Teaching

Assistant tutor for short course *SEEC-ACCESS Introduction to statistical modelling & data analysis* (2018-07-18–20).
Organiser: A/Prof R. Altwegg (UCT).
Tutor for *Study Design & Data Analysis for Scientists* (STA2007F/S/H) (UCT) (2017–present).
Assistant tutor for *Bionumeracy* (STA1007S) R practicals (UCT) (2016–present).
Hot-seat tutor for *Mathematics for Biology, Earth, & Environmental Sciences* (MAM1004F/S) (UCT) (2015).

Skills

Extended experience with Apple macOS, MS Windows, MS Office, R, RMarkdown, Git, GitHub.
Fluent in both English & Afrikaans.
Animal Ethics Course (South African Veterinary Council) (part of BSc Hons) (2017-04).

References

A/Prof R. Altwegg, Dept. of Statistical Sciences, UCT. Head of Centre for Statistics in Ecology, the Environment & Conservation. +27 21 650 5750, res.altwegg@uct.ac.za.
Prof T.A. Hedderson, Dept. of Biological Sciences, UCT. +27 21 650 4037, terry.hedderson@uct.ac.za.