

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 (UCT) (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

Cramer, M.D., van Mazijk, R., Wootton, L.M., Verboom, G.A. (In prep.). Edaphic diversity in a global biodiversity hotspot.

Van Mazijk, R., Cramer, M.D., Verboom, G.A. (In prep.). The role of environmental heterogeneity in determining plant species richness in the Greater Cape Floristic Region & the Southwest Australia Floristic Region.

Van Mazijk, R., Smythe, L.K., Weideman, E.A., West, A.G. (In review). Isotopic tracing of storm-water in the urban Liesbeek River. *Water SA*.

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) for five Biological Sciences undergraduate courses (UCT) (2014–2016).

Leadership experience

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

Teaching

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

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

Associate Prof R. Altwegg

- Dept. of Statistical Sciences, UCT
- Head of Centre for Statistics in Ecology, the Environment and Conservation (SEEC)
- res.altwegg@uct.ac.za
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Prof T.A. Hedderson

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