

# Ruan van Mazijk, *Curriculum vitae*

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

[ruanvmazijk@gmail.com](mailto:ruanvmazijk@gmail.com), +27 72 516 7570, [rvanmazijk.github.io](https://github.com/rvanmazijk)

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 press). Isotopic tracing of stormwater in the urban Liesbeek River. *Water SA*, 44(4).

## Professional affiliations

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

South African Association of Botanists (SAAB) member (2017–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](mailto:res.altwegg@uct.ac.za)
- +27 21 650 5750

Prof T.A. Hedderson

- Dept. of Biological Sciences, UCT
- [terry.hedderson@uct.ac.za](mailto:terry.hedderson@uct.ac.za)
- +27 21 650 4037