

# Curriculum Vitae

## Robert William Schlegel



### Professional profile

**Qualification profile:** Marine Scientist with wide range of skills, training, and experience

**Highest qualification:** PhD (Biodiversity): University of the Western Cape

### Educational Summary

<u>Date</u>	<u>Qualification</u>	<u>Institution</u>
Jan '15 – Mar '18	PhD – Biodiversity	Univ. of the Western Cape
Jan '13 – Jan '14	MPhil – Applied Marine Science	University of Cape Town
Sep '04 – Mar '08	Bachelor of Arts – Psychology	University of Washington
Sep '00 – Jun '04	Diploma	Woodinville High School

### Thesis Titles

**Bachelor Thesis:** Effect of abnormally small troop size on aggressive and prosocial behavior in patas monkeys, *Erythrocebus patas*

**Master Thesis:** The effects of the Cold Ridge variability on small pelagic transition and retention from the West coast to the South coast of South Africa

**PhD Thesis:** Coastal marine heatwaves: Understanding extreme forces

## **Publications**

- Schlegel, R. W., Smit, A. J., 2018. heatwaveR: A central algorithm for the detection of heatwaves and cold-spells . Journal of Open Source Software 3 (27), 821. doi: 10.21105/joss.00821
- Schlegel, R. W., Smit, A. J., 2016. Climate change in coastal waters: Time series properties affecting trend estimation. Journal of Climate 29 (24), 9113–9124. doi: 10.1175/JCLI-D-16-0014.1
- Schlegel, R. W., Oliver, E. C. J., Wernberg, T., Smit, A. J., 2017. Nearshore and offshore co-occurrence of marine heatwaves and cold-spells. Progress in Oceanography 151, 189-205. doi: 10.1016/j.pocean.2017.01.004
- Schlegel, R. W., Oliver, E. C. J., Perkins-Kirkpatrick, S., Kruger, A., Smit, A. J., 2017. Predominant atmospheric and oceanic patterns during coastal marine heatwaves. Frontiers in Marine Science 4, 323. doi: 10.3389/fmars.2017.00323

## **Character summary**

Conscientious and enthusiastic professional with solid interpersonal, leadership and communication skills. Self-motivated and develops a good working rapport with peers, faculty, staff, and technicians. Highly flexible and extremely adaptable to novel situations.

## **Computing Competencies**

Professional training in all standard Microsoft Office programs. Academic training in MATLAB, ROMS, ODV, and Python. Markdown and LaTeX document creation. Wide range of advanced R competencies including but not limited to: university curriculum, workshop development, Shiny web application deployment, and package (software) creation. Statistical analysis/decomposition of time series data. Handling large atmospheric and oceanic datasets from *in situ*, remotely sensed, and reanalysis sources. Development, maintenance, and dissemination of environmental observation data products. Equally capable in both Windows and Linux based operating systems.

## **Training/Certifications**

Intercollegiate leadership training. Teaching English as a Foreign Language (TEFL) Diploma. Professional Association of Diving Instructors (PADI) Specialty Instructor. Class IV commercial diving certification. Coastal ecology sampling techniques. Deployment of CTDs, gliders, bongo drums, and other underway sampling equipment. Identification of pelagic larva. Level three first aid certification.

## **Languages**

Native English with excellent Afrikaans and German communication skills. Capable of teaching and presenting to an audience in all three languages.

## Career profile

<b>Oct '19 – Sep '20</b>	WHOI	<i>Woods Hole, USA</i>
<i>Postdoctoral Fellow</i>		
<b>Sep '18 – Sep '19</b>	Dalhousie	<i>Halifax, Canada</i>
<i>Postdoctoral Fellow</i>		
<b>Jan '18 – July '18</b>	UWC	<i>Cape Town, South Africa</i>
<i>Postdoctoral Researcher</i>		
<b>Jan '15 – May '18</b>	R Workshops	<i>South Africa</i>
<i>Instructor/Developer</i>		
<b>Jan '15 – Nov '17</b>	UWC/UCT	<i>Cape Town, South Africa</i>
<i>Demonstrator</i>		
<b>Jan '15 – Nov '17</b>	UWC	<i>Cape Town, South Africa</i>
<i>PhD Candidate</i>		
<b>Apr '14 – Oct '14</b>	UWC	<i>Cape Town, South Africa</i>
<i>Research Assistant</i>		
<b>Jan '14 – Feb '15</b>	Two Oceans Aquarium	<i>Cape Town, South Africa</i>
<i>Diving Instructor</i>		
<b>Dec '13</b>	R/V Meteor	<i>Indian/Atlantic Ocean</i>
<i>Research Crew Member</i>		
<b>Jan '12 – Jan '13</b>	IDive	<i>Athuruga/Thudufushi, Maldives</i>
<i>Diving Instructor</i>		
<b>Jul '11 – Dec '11</b>	Diani Marine	<i>Diani Beach, Kenya</i>
<i>Diving Instructor</i>		
<b>Jan '11 – Apr '11</b>	Anti Gravity Divers	<i>Ko Lanta, Thailand</i>
<i>Dive Master</i>		

**Further details available upon request**

## References

Prof. AJ Smit

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Dr. Sarah Perkins-Kirkpatrick

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**Additional referees available upon request**

## Personal details

<b>Surname:</b>	Schlegel
<b>First Name(s):</b>	Robert William
<b>Passport Number:</b>	482518980
<b>Date of Birth:</b>	December 16 <sup>th</sup> , 1985
<b>Gender:</b>	Male
<b>Marital status:</b>	Common-law Partner
<b>Nationality:</b>	United States Citizen
<b>Visa:</b>	Work Permit (Canada)
<b>Language proficiency:</b>	Native English Speaker German Afrikaans
<b>Criminal offences:</b>	None
<b>Health:</b>	Excellent (Non-smoker)
<b>Postal address:</b>	5745 Inglis Street, Halifax, Nova Scotia B3H 1K5 Canada
<b>Contact numbers:</b>	<b>Cell:</b> +1 204 666 3092 <b>E-mail:</b> <a href="mailto:robwschlegel@gmail.com">robwschlegel@gmail.com</a>