

# 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

### 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.

### Educational Summary

Date	Qualification	Institution
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

### First Author Publications

- Schlegel, R. W. (2020). Marine Heatwave Tracker. <http://www.marineheatwaves.org/tracker>. doi: 10.5281/zenodo.3787872
- Schlegel, R. W., Oliver, E. C. J., Hobday, A. J., Smit, A. J., 2019. Detecting marine heatwaves with sub-optimal data. *Frontiers in Marine Science* 6, 737. doi: 10.3389/fmars.2019.00737
- 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., 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
- 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., 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

### Recent Conferences

- GHR SST Jun 2020** - Comparison of multiple SST products using the MHW Tracker (Pres.)
- CMOS Mar 2020** - Primary drivers of marine heatwaves in the Northwest Atlantic (Pres.)
- OSM Feb 2020** - Marine Heat Waves and Ocean Biogeochemical Extremes I & II (Chair)
- ArcticNet Dec 2019** - The relationship between Arctic kelps and their environment (Pres.)
- CMOS Jul 2019** - Detecting marine heatwaves with sub-optimal data (Poster)
- Primary drivers of marine heatwaves in the Northwest Atlantic (Poster)
- IMBeR Jun 2019** - Detecting marine heatwaves with sub-optimal data (Poster)
- Primary drivers of marine heatwaves in the Northwest Atlantic (Pres.)
- PSSA Jul 2018** - South African *in situ* collected temperature data for phycological research (Pres.)
- OSM Feb 2018** - Predominant Atmospheric and Oceanic Patterns during Coastal Marine Heatwaves (Poster)

## Career Profile

<b>Jun '20 – Jun '21</b>	iAtlantic	<i>Cape Town, South Africa</i>
<i>Research Fellow</i>		
<b>Oct '19 – Sep '20</b>	WHOI	<i>Woods Hole, USA</i>
<i>Postdoctoral Fellow</i>		
<b>Sep '18 – Jun '21</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>		

**Further details available upon request**

## References

Prof. Eric Oliver	DO, DAL Tel: +1 902 494 2505 <a href="mailto:eric.oliver@dal.ca">eric.oliver@dal.ca</a>
Dr. Ke Chen	PO, WHOI <a href="mailto:kchen@whoi.edu">kchen@whoi.edu</a>
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Prof. Thomas Wernberg	SBS, UWA Tel: +61 8 6488 7204 <a href="mailto:thomas.wernberg@uwa.edu.au">thomas.wernberg@uwa.edu.au</a>
Dr. Sarah Perkins-Kirkpatrick	CCRC, UNSW <a href="mailto:sarah.kirkpatrick@unsw.edu.au">sarah.kirkpatrick@unsw.edu.au</a>

## 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, reanalysis, and model 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.

## Personal Details

<b>Surname:</b>	Schlegel
<b>First Name(s):</b>	Robert William
<b>Passport Number:</b>	566814926
<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)
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