

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

Publications

- Schlegel, R. W., Oliver, E. C. J., Hobday, A. J., Smit, A. J., 2018. 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

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

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

Further details available upon request

References

Prof. AJ Smit

DBCB, UWC
Tel: +27 78 300 6005
ajsmit@uwc.ac.za

Prof. Eric Oliver

DO, DAL
Tel: +1 902 494 2505
Eric.Oliver@Dal.Ca

Dr. Thomas Wernberg

SBS, UWA
Tel: +61 8 6488 7204
thomas.wernberg@uwa.edu.au

Dr. Sarah Perkins-Kirkpatrick

CCRC, UNSW
sarah.kirkpatrick@unsw.edu.au

Additional referees available upon request

Personal details

Surname:	Schlegel
First Name(s):	Robert William
Passport Number:	482518980
Date of Birth:	December 16 th , 1985
Gender:	Male
Marital status:	Common-law Partner
Nationality:	United States Citizen
Visa:	Work Permit (Canada)
Language proficiency:	Native English Speaker German Afrikaans
Criminal offences:	None
Health:	Excellent (Non-smoker)
Postal address:	5745 Inglis Street, Halifax, Nova Scotia B3H 1K5 Canada
Contact numbers:	Cell: +1 774 244 9279 E-mail: robwschlegel@gmail.com