

Robert Schlegel - Data Scientist

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Profile

Entrepreneur working at the intersection of climate and ecology. Leveraging a strong [academic research background](#) to develop applications of science and technology to combat the impacts of climate change on global biodiversity. Specialised in R, big data, marine heatwaves (MHW), coastal ecology (kelp), and species distribution modelling (SDM).

Key Strengths

Proactive, self-motivated, resourceful, creative problem solver, attention to detail

Computing Competencies

Wide range of advanced R competencies including but not limited to: teaching, developing university curriculum, leading workshops, building & deploying Shiny web applications, and package (software) development. Machine learning and other statistical analysis techniques for spatial and temporal 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. Rapid prototyping and deployment of viable products from scratch to operations. [GitHub](#). Equally capable in both Windows and Linux based operating systems. Professional training in all standard Microsoft Office programs. Academic training in MATLAB, ROMS, ODV, and Python. LaTeX, Markdown, and HTML document creation.

Career Profile

May '24 – Present	Ecomonitor	<i>Nice, France</i>
<i>Director</i>		
Nov '20 – Jul '24	FACE-IT	<i>Nice, France</i>
<i>Data Scientist</i>		
Oct '19 – Sep '20	WHOI	<i>Woods Hole, USA</i>
<i>Postdoctoral Fellow</i>		
Sep '18 – Nov '20	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>		

Education

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

Training/Certifications

Intercollegiate leadership training. Teaching English as a Foreign Language (TEFL) Diploma. Professional Association of Diving Instructors (PADI) Speciality 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.

References

Prof. Jean-Pierre Gattuso: SU, CNRS, jean-pierre.gattuso@imev-mer.fr

Prof. Eric Oliver: DO, DAL, eric.oliver@dal.ca

Prof. AJ Smit: DBCB, UWC, ajsmit@uwc.ac.za

Prof. Thomas Wernberg: SBS, UWA, thomas.wernberg@uwa.edu.au

Dr. Sarah Perkins-Kirkpatrick: CCRC, UNSW, sarah.kirkpatrick@unsw.edu.au