

Verena Schrameyer, PhD

D.O.B. 28/02/1981; Nationality: German/Australian

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Civil status: De facto relationship, 1 daughter & 1 son



PROFESSIONAL PROFILE

I am an enthusiastic and ambitious benthic marine ecologist and biochemist with 14 years of experience in academic research as well as consultancy work related to environmental impact assessment (cf. Professional Work Experience in italics and Selected Publications). I have worked with different marine flora and fauna, ranging from picocyanobacteria, pelagic fish, seagrass to reef building corals. I enjoy communicating science to the wider public as well as liaising with stakeholders. I have previously worked as an external consultant for Ørsted (DK) and TropWater (AU). I am a true teamplayer but are also fully capable to successfully drive my own projects and lead other team members. I have resided and worked in Australia from 2006-2017 and worked in several different international research teams.

PROFESSIONAL WORK EXPERIENCE

- 2019- ongoing Environmental consultant (VS EcoSolutions) – *External consultant to Ørsted supporting an initiative to utilize offshore foundations for endangered species, Science communicator for public events (e.g. Gentank, Danish Nature Association).*
- 2019-2020 International Baccalaureate Teacher (*Biology, Environmental Systems and Societies*) – Birkerød Kostskole HF (DK).
- 2017-2019 Individual Postdoctoral Fellowship – University of Copenhagen, Marine Biological Section (DK). *DENOCs project, Impact assessment of environmental stressors upon coral cellular biochemistry and overall reef ecosystem function. Marie Skłodowska-Curie actions.*
- 2016-2017 Postdoctoral Research Assistant – Macquarie University, Dept. of Chemistry and Biomolecular Sciences, Sydney (AU). *Impact assessment of plastic pollution upon pelagic picocyanobacteria.*
- 2014 Contracted Technical Assistant – University of Technology, Sydney (AU). *Diagnostic biosensor development for photosynthetic productivity measures as a tool for ecological assessments.*
- 2010-2013 Contracted Researcher – TropWATER (AU). *Consultancy project assessing water quality, and other environmental and anthropogenic stressors and their effects on seagrass ecosystem function and health.*
- 2009-2013 PhD candidature – University of Technology, Sydney (AU). *Defining the bio-energetic limits of Symbiodinium sp.'s host-symbiont relationship under future climate scenarios.*
- 2008-2009 Downstream Laboratory Technician – Inverness Medical Innovations (former PanBio) (AU).
- 2007-2008 Research Assistant – University of Queensland, Brisbane (AU). *Coral Reef Targeted Research & Capacity Building for Management projects –field-based benthic and pelagic impact assessment (fish community surveys, disease surveys, thermal stress impact on community dynamics of reef building corals) and sampling surveys for molecular analysis.*

- 2007 MSc thesis – University of Queensland, Brisbane (AU). *Part of project entitled: 'Linkages between coral assemblages and coral-based proxies of terrestrial exposure along a cross-shelf gradient of the Great Barrier Reef'.*
- 2004 – 2006 Contracted Researcher – Leibniz Center for Tropical Marine Ecology (ZMT), Bremen (GER). *SPICE I project: Impact assessment of anthropogenic pollutants on mangrove ecosystems in Indonesia.*
- 2005 Study abroad semester on Curacao, field-based course 'Research Methods in Coral Reef and Adjacent Ecosystems', University of North Carolina Wilmington (USA)
- 2002 Contracted Researcher – Federal Research Center for Fisheries, Hamburg (GER). *Atlanto Scandic herring abundance and health status assessment.*

CAREER BREAKS

- 2014 – 2016, 2020 – ongoing Maternity leave (daughter Karla 17.11.2014 and son Vitus 23.7.2020)

ACADEMIC EDUCATION

- 2013 **PhD** – University of Technology Sydney (UTS), Sydney (AU)
- 2006 **MSc** – University of Bremen (GER), University of North Carolina, Wilmington (USA), Westfälische Wilhelms University Münster, (GER), University of Queensland, Brisbane (AU) – (Marine Biology, Zoology, Ecology) finalised with High distinction
- 2003 **BSc** – Justus-Liebig University (Anorganic/organic chemistry, physics, zoology, botany, Giessen (GER)

INVITED PRESENTATIONS

- 2020 'Stor Mentordyst' Science Slam, Studio 17, Hvidovre
Guest Lecture – 'Coral Reefs and Global Change' for Danish Nature Association (Dansk Naturforening)
- 2019 Guest Lecture – 'Coral Reefs in a Changing World' at 'Gentæk' Science Festival
- 2018, 2019 Guest Lecture – 'Coral Reefs in a Changing World' for MSc Program, Dept. Geoscience and Natural Resource Management, University of Copenhagen.
- 2018 Introductory talk to public viewing 'Chasing Coral' documentary followed by a wrap-up talk and holding Q&A session, Doku2200, Copenhagen.
'Book a Researcher' Talk series – Frederiksberg Gymnasium, Gentofte Gymnasium, Nyborg Gymnasium
- 2017 Introductory talk to public viewing 'Chasing Coral' documentary followed by a wrap-up talk and holding Q&A session, Øresund Aquarium/Marine Biological Section, University of Copenhagen.

TEACHING & MENTORING

- 2017 – 2019 Teaching Associate, MSc student supervisor – University of Copenhagen (*Marine Biology*)
- 2016 – 2017 MSc and PhD Co-supervisor – Macquarie University, Sydney
- 2009 – 2014 Teaching Associate, Private Tutor at Jumbunna – University of Technology Sydney,
Undergraduate courses e.g. basic plant evolution, environmental ecology and coral physiology

ACHIEVEMENTS, HONORS & ACTIVITIES

- 2020 'Stor Mentordyst' Award winner – for communicating Global Change related impacts upon coral reef ecosystems.
- 2019 Co-founder and member of the UN Early Career Ocean Professionals (ECOPS) supporting organizational preparations for the Decade of the Ocean (2021-2030).
Founding of VS EcoSolutions, Environmental Consultancy and Science Communication.
- 2018 Supporting organization of the International Coral Reef Society meeting 2020 in Bremen (postponed due to COVID-19).
- 2017 Local Ambassador and organiser of Denmark's Kick-off event for 'International Year of the Reef 2018'.
- 2012 Co-representative for the Australian Coral Reef Society at the International Coral Reef Society meeting in Cairns (AU) (9th – 13th of July 2012).
- 2011 Postgraduate student representative on the Faculty board of Science, University of Technology, Sydney.
TV interview about personal research advances, Channel 10 Australia

PERSONAL AND TECHNICAL SKILLS

Languages	German (native) English (business fluent) Danish (basic)
Laboratory & Fieldwork (<i>selection</i>)	Boating License (Ger/AU), Scientific Diver (AAUS), Rescue Diver (PADI) Pulse Amplitude Modulated Fluorometry (expert user for Walz instruments) Microscopy (confocal, epifluorescence, SEM, brightfield) Oxygen sensing techniques (optical, microsensor-based)
Data processing software (<i>selection</i>)	Microsoft Suite Origin Pro, SigmaPlot SPSS, Graphpad Suite

PERSONAL INTERESTS

I enjoy spending time with my family and friends and explore nature. I have always been drawn to the ocean and I enjoy various water sport activities. I am an avid athlete and enjoy varying sports, from snowboarding, race biking, running to crossfit and yoga. I believe a good balance of body and mind is key for bringing out the best in ourselves. I am also a very creative person and spend my free time in my pottery studio, knitting new garments for the family or felting little arty pieces.

SCIENTIFIC PUBLICATIONS (*selected*)

- 2019** Tetu S., Sarker I., **Schrameyer V.**, Pickford R., Elbourne L.D.H., Moore L.R., Paulsen I., Impact of plastic leachates on marine *Prochlorococcus*. *Communications Biology* 2, Article No. 184.
- 2018** **Schrameyer V.**, York P.A., Chartrand K., Ralph P.J., Kühl M., Brodersen K.E., Rasheed M. A. Contrasting impacts of light reduction on sediment biogeochemistry in deep- and shallow-water tropical seagrass assemblages (Green Island, Great Barrier Reef). *Marine Environmental Research*, 2018, Vol. 136, pp38-47.
- 2017** Brodersen K.E., Hammer K.J., **Schrameyer V.**, Floytrup A., Rasheed M. A., Ralph P.J., Kühl M., Pedersen O., Sediment resuspension and deposition on seagrass leaves impedes internal plant aeration and promotes phototoxic H₂S intrusion. *Frontiers in Plant Science*, 2017, Vol. 8, Article 657.
- Tonk L., Sampayo E.M., **Schrameyer V.**, Chai A., Hoegh-Guldberg O., *Symbiodinium* (Phyrrhophyta) community patterns in invertebrate hosts from inshore marginal reefs of the southern Great Barrier Reef, Australia. *Journal of Phycology*, 2017, Vol. 53, pp. 589 – 600.
- 2016** **Schrameyer V.**, Krämer W.E., Hill R., Jeans J., Larkum A.W.D., Bischof K., Campbell D.A., Ralph P.J., Under high light stress two Indo-Pacific coral species display differential photodamage and photo repair dynamics. *Marine Biology*, 163(8), 1-13.
- Tonk L., Sampayo E. M., LaJeunesse T.C., **Schrameyer V.**, Hoegh-Guldberg O., *Symbiodinium* (Dinophyceae) diversity in reef- invertebrates along an offshore to inshore reef gradient near Lizard Island, Great Barrier Reef. *Journal of Phycology*, 2014, Vol. 40 (3), pp. 552-563. DOI: 10.1111/jpy.12185
- 2008** Jupiter S., Roff G., Marion G., Henderson M., **Schrameyer V.**, Hoegh Guldberg O., Linkages between coral assemblages and coral proxies of terrestrial exposure along a cross-shelf gradient of the southern Great Barrier Reef. *Coral Reefs*, 2008, Vol. 27, pp. 887- 903.

REFERENCES

Bjørn Andersen

Ørsted

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‘Verena has shown and acted in a very proactive way through regular alignment meetings and sharing reflections/considerations to ensure progress – all in all a very good holistic approach.’

Prof. Michael Kühl

University of Copenhagen

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‘She can demonstrate significant teaching experience and a keen interest and track record in outreach activities and involvement in international organizations’

Prof. Anthony Larkum

University of Technology Sydney

Email: a.larkum@sydney.edu.au

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‘Verena Schrameyer has a very engaging personality with an active and imaginative mind. She has always impressed me with her cooperativity, imagination and productivity. I recommend very highly’