

Curriculum vitae, Dr. Yvonne Sawall

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Professional experience & appointments

- Since 2020** **Assistant Scientist – Marine Benthic Ecology and Ecophysiology Lab**, BIOS Bermuda Institute of Ocean Sciences, Bermuda.
- 2019 - 2020** **Research Fellow in Marine Benthic Ecology**. BIOS Bermuda Institute of Ocean Sciences, Bermuda.
- 2016 - 2018** **Advanced Post-doctoral Researcher in Coral Reef Ecology**. BIOS Bermuda Institute of Ocean Sciences, Bermuda. *Coral Reef Airborne Laboratory* (NASA project)
- 2014 – 2016** **Research Scientist in Marine Benthic Ecology**. GEOMAR Helmholtz Center for Ocean Research Kiel, Germany. *Climate Change research in the Baltic Sea*.
- 2014** **Guest Scientist in the Microsensor Group** at the Max-Planck-Institute for Marine Microbiology (MPI), Bremen, Germany.
- 2011 – 2013** **Post-doctoral Researcher in Coral Ecology**. GEOMAR Helmholtz Center for Ocean Research Kiel, Germany. Jeddah Transect Project (*Red Sea coral reefs*).
- 2007** **Research Assistant in Microbiology**. MPI, Bremen, Germany
- 2004** **Research Assistant in Kelp Forest Ecology**. San Diego State University, USA
- 2004** **Research Assistant in Coral Ecology**. Australian Institute for Marine Science, Australia

Education

- 2007 – 2011** **Ph.D. in Marine Ecology**. Leibniz Center for Tropical Marine Ecology and University of Bremen, Germany. Thesis title: '*Coral resistance to natural and anthropogenic disturbances*'. Advisors: Prof. Claudio Richter, Prof. Antje Boetius, Dr. Mirta Teichberg
- 2004 - 2006** **M.Sc. in Aquatic Tropical Ecology**. University of Bremen, Germany. Thesis title: '*Potential of coral communities to recover after the Tsunami 2004 in the Andaman Sea, Thailand*'. Advisor: Prof. Claudio Richter
- 2002 – 2003** **Marine Biology**. University of Bremen, Germany
- 2000 – 2002** **Biology (undergraduate)**. University of Oldenburg, Germany

Peer-reviewed articles (^a mentored or co-mentored students, ^b senior authorship)

Sawall Y, Ito M, Pansch C (2021) Chronically elevated sea surface temperatures revealed high susceptibility of the eelgrass *Zostera marina* to winter and spring warming. *Limnology and Oceanography* <https://doi.org/10.1002/lno.11947>

Johnson MJ^a, Hennigs LM, Sawall Y, Pansch C, Wall M (2020) Growth response of calcifying marine epibionts to biogenic pH fluctuations and global ocean acidification scenarios. *Limnology and Oceanography* DOI: 10.1002/lno.11669

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- Sawall Y**, Feng EY, Harris M^a, Lebrato M, Wall M (2020) Discrete pulses of cooler deep water can decelerate coral bleaching during thermal stress: Implications for artificial upwelling during heat stress events. *Frontiers in Marine Science* DOI: 10.3389/fmars.2020.00720
- Feng EY, **Sawall Y**, Wall M, Lebrato M, Fu Y (2020) Mitigating coral bleaching with artificial upwelling – a modelling investigation. *Frontiers in Marine Science* DOI: 10.3389/fmars.2020.556192
- Saha M, Barboza FR, Somerfield PJ, Al-Janabi B, Beck M, Brakel M, Ito M, Pansch C, Nascimento-Schulze J, Jakobsson-Thor S, Weinberger F, **Sawall Y**^b (2019) Response of foundation macrophytes to near-natural simulated marine heatwaves. *Global Change Biology* doi.org/10.1111/gcb.14801
- Banguera-Hinestroza E, Ferrada E, **Sawall Y**, Flot J-F (2019) Computational characterization of the mtORF of pocilloporid corals: insights into differences in protein structure and function among *Stylophora* lineages from contrasting environments. *Genes* 10:324
- Sawall Y**, Hochberg E (2018) Diel versus time-integrated (daily) photosynthesis and irradiance relationships of coral reef organisms and communities. *PLoS ONE* doi.org/10.1371/journal.pone.0208607
- Pansch C, Scotti M, Barboza FG, Al-Janabi B, Brakel J, Briski E, Buchholz B, Franz M, Ito M, Paiva F, Saha M, **Sawall Y**, Weinberger F, Wahl M (2018) Heat waves and their significance for a temperate benthic community: A near-natural experimental approach. *Global Change Biology* doi.org 10.1111/gcb.14282
- Wahl M, Schneider Covachã S, Saderne V, Hiebenthal C, Müller JD, Pansch C, **Sawall Y** (2017) Macroalgae may mitigate ocean acidification effects on mussel calcification by increasing pH and its fluctuations. *Limnology and Oceanography*, doi: 10.1002/lno.10608
- Wahl M, Saderne V, **Sawall Y** (2016) How good are we at assessing ocean acidification impact in coastal systems? Limitations, omissions and strengths of commonly used experimental approaches with a special emphasis on the neglected role of fluctuations. *Marine and Freshwater Research*, doi.org/10.1071/MF14154 (review article)
- Sawall Y**, Al-Sofyani A, Hohn S, Banguera-Hinestroza E, Voolstra C, Wahl M (2015) Extensive phenotypic plasticity of a Red Sea coral over a strong latitudinal temperature gradient suggests limited acclimatization potential to warming. *Scientific Reports* 5:8940
- Robitzch V, Banguera E, **Sawall Y**, Al-Sofyani A, Voolstra CR (2015) Absence of genetic differentiation in the coral *Pocillopora verrucosa* along environmental gradients of the Saudi Arabian Red Sea. *Frontiers in Marine Science*, doi: 10.3389/fmars.2015.00005
- Hoang BX, **Sawall Y**, Al-Sofyani A, Wahl M (2015) Chemical versus structural defense against fish predation in two dominant soft coral species (Xeniidae) in the Red Sea. *Aquatic Biology* 23:129-137
- Wahl M, Al-Sofyani A, Saha M, Kruse I, Lenz M, **Sawall Y** (2014) Large scale patterns of antimicrofouling defenses in the hard coral *Pocillopora verrucosa* in an environmental gradient along the Saudi Arabian coast of the Red Sea. *PLoS ONE* 9:e106573
- Sawall Y**, Khokiattiwong S, Jompa J, Richter C (2014a) Calcification, photosynthesis and nutritional status of the hermatypic coral *Porites lutea*: contrasting case studies from Indonesia and Thailand. *Galaxea, Journal of Coral Reef Studies* 16:1-10
- Sawall Y**, Al-Sofyani A, Kürten B, Al-Aidaros AM, Hoang BX, Marimuthu N, Khomayis HS, Sommer U, Gharbawi WY, Wahl M (2014b) Coral communities, in contrast to fish communities, maintain a high assembly similarity along the large latitudinal gradient along the Saudi Red Sea coast. *Journal of Ecosystem and Ecography* S4: 003. doi: 10.4172/2157-7625.S4-003

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- Sawall Y**, Al-Sofyani A, Banguera-Hinestroza E, Voolstra C (2014c) Spatio-temporal analyses of zooxanthellae physiology of the coral *Pocillopora verrucosa* along large-scale nutrient and temperature gradients in the Red Sea. PLoS ONE 10.1371/journal.pone.0103179
- Seemann J^a, **Sawall Y**, Auel H, Richter C (2013) The use of lipids and fatty acids to measure the trophic plasticity of the coral *Stylophora subseriata*. Lipids 48:275-286
- Sawall Y**, Jompa J, Maddusila A, Richter C (2013) Coral recruitment and potential recovery of eutrophied and blast fishing impacted reefs in Spermonde Archipelago, Indonesia. Marine Pollution Bulletin 74:374-382
- Sawall Y**, Richter C, Ramette A (2012) Effects of eutrophication, seasonality and macrofouling on the diversity of bacterial biofilms associated with coral reefs of the Spermonde Archipelago, Indonesia. PLoS ONE 7(7): e39951
- Sawall Y**, Teichberg MC, Seemann J^a, Litaay M, Jompa J, Richter C (2011) Nutritional status and metabolism of the coral *Stylophora subseriata* along a eutrophication gradient in Spermonde Archipelago (Indonesia). Coral Reefs 30:841-853
- Sawall Y**, Phongsuwan N and Richter C (2010). Coral recruitment and recovery after the 2004 Tsunami around the Phi Phi Islands (Krabi Province) and Phuket, Andaman Sea, Thailand. Helgoland Marine Research 64:357-365

Peer-reviewed book chapters

- Sawall Y**, Al-Sofyani A (2015) Biology of Red Sea corals: Metabolism, reproduction, acclimatization, and adaptation. In: Rasul NMA, Stewart ICF (eds) The Red Sea. Springer Berlin Heidelberg Germany, pp 487-509 (invited)

Article pre-prints

- Banguera-Hinestroza E, **Sawall Y**, Al-Sofyani A, Mardulyn P, Fuertes-Aguilar J, Cárdenas-Henao H, Jimenez-Infante F, Voolstra CR, Flot J-F (2018) mtDNA recombination indicative of hybridization suggests a role of the mitogenome in the adaptation of reef building corals to extreme environments. bioRxiv 462069; doi: <https://doi.org/10.1101/462069>

Conference talks & Workshops (^a mentored or co-mentored students)

- Buitrago-Lopez C, Gosselin T, **Sawall Y**, Aranda M, Barshis DJ, Voolstra CR (2021) Genetic diversity and population structure of Pocilloporid corals along the Red Sea latitudinal gradient using a high-throughput RADSeq approach. 14th International Coral Reef Symposium, Bremen, Germany, 2020
- Sawall Y**, Miller A^a, Flesher D^a, Bates N, Hochberg EJ (2021, Poster) Temporal dynamics of the inorganic carbon budget of shallow water coral and algal communities at a high latitude reef: a mesocosm study. 14th International Coral Reef Symposium, Bremen, Germany, 2020
- Harries M^a, Feng Y, Wall M, Lebrato M, **Sawall Y** (2021, Poster) Effect of artificial upwelling on preventing coral bleaching during times of thermal stress: Strategies for survival in a warming ocean. 14th International Coral Reef Symposium, Bremen, Germany, 2020
- Harries M^a, Feng Y, Wall M, Lebrato M, **Sawall Y** (2021, Poster) Effect of artificial upwelling on preventing coral bleaching during times of thermal stress: Strategies for survival in a warming ocean. ASLO Ocean Science Meeting, San Diego 2020
- Flesher D^a, **Sawall Y**, Hochberg E (2019, Poster) Assessing Light Use Efficiencies (LUEs) of benthic reef communities for spectral modeling applications. Gordon Research Conference (student price for outstanding poster)

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- Sawall Y**, Miller A^a, Hochberg E (2019) Light-use-efficiency of reef corals and algae and its implication for remote sensing of primary production. ASLO Aquatic Sciences Meeting, Puerto Rico
- Sawall Y**, Miller A^a, Hochberg E (2017, Poster) Light-use-efficiency of reef corals and algae and its implication for remote sensing. European Coral Reef Symposium, Oxford, UK
- Pearson Z^a, Hochberg E, **Sawall Y** (2017, Poster) Small-scale variability of optical properties and photosynthesis across and between fluorescent and non-fluorescent coral colonies. European Coral Reef Symposium, Oxford, UK
- Buitrago-López C, Gosselin T, Ziegler M, Gegner H, **Sawall Y**, Aranda M, Voolstra CR (2017, Poster) Population genomics of Red Sea coral reefs: The case study of *Stylophora pistillata*. Red Sea Research Center (RSRC) Open Science Conference 2017
- Sawall Y**, Al-Sofyani A, Barshis D (2016) Spatio-temporal variation of coral gene expression across 12 latitudes and 2 seasons in the Red Sea (Temperature: 21-33°C). 13th International Coral Reef Symposium, Honolulu, Hawaii
- Sawall Y** (2016) Assessing the effect of hypoxia on organisms and communities using in situ incubation chambers. Saanich Inlet Symposium, Univ. of Victoria, Canada
- Sawall Y**, Al-Sofyani A (2013) Calcification of the coral *Pocillopora verrucosa* along the nutrient and temperature gradient of the Red Sea. EGU General Assembly, Vienna, Austria
- Sawall Y**, Al-Sofyani A (2013) Coral acclimatization: Photosynthesis, calcification and mucus release of the coral *Pocillopora verrucosa* along the nutrient and SST gradient of the Red Sea. ASLO, New Orleans, USA
- Roibitzch Sierra V, Banguera-Hinestroza E, **Sawall Y**, Al-Sofyani A, Brey T, Voolstra C (2013) Genetic connectivity of the reef building coral *Pocillopora sp.* in the Red Sea. YOUMARES Young Marine Researcher Conference, Bremen, Germany
- Sawall Y**, Al-Sofyani A (2012) Metabolic performance of *Pocillopora verrucosa* along the S-N gradient in the Red Sea. 12th International Coral Reef Symposium, Cairns, AUS
- Banguerra-Hinestroza E, **Sawall Y**, Wham D, Schnetzer J, Roder C, LaJeunesse T, Voolstra C (2012) The genetic diversity of coral-dinoflagellate symbioses in the Red Sea. 12th International Coral Reef Symposium, Cairns, AUS
- Beisiegel K^a, **Sawall Y**, Wahl M (2012) The potential of acclimatization of the scleractinian coral *Pocillopora verrucosa* to land-based pollution. YOUMARES Young Marine Researcher Conference, Lübeck, Germany (price for best presentation)
- Sawall Y**, Al-Sofyani A, Wahl M (2012) Metabolic performance of *Pocillopora verrucosa* along the S-N gradient in the Red Sea. Coral Reefs of the Gulf Conference, Abu Dhabi, UAE
- Sawall Y**, Teichberg M, Seemann J^a, Litaay M, Jompa J, Richter C (2010) Nutritional status and metabolism of the coral *Stylophora subseriata* along an eutrophication gradient in Spermonde Archipelago (Indonesia). European Meeting of the International Society for Reef Studies (ISRS), Wageningen, Netherlands
- Sawall Y**, Jompa J, Richter C (2010, Poster) Spatio-temporal pattern of coral recruitment in the Spermonde Archipelago, SW-Sulawesi, Indonesia. ISRS, Wageningen, Netherlands
- Sawall Y** (2010, invited talk) Regional-, reef- and fine-scale variations in calcification, photosynthesis and nutritional status of the hermatypic coral *Porites lutea* in the light of metabolic flexibility and acclimatization. King Abdulla University of Science and Technology, Thuwal, Saudi Arabia
- Sawall Y**, Khokiattiwong S, Jompa J, Richter C (2010) Metabolic adaptations of the coral *Porites lutea* to various environmental conditions. 2nd Asian Pacific Coral Reef Symposium, Phuket, Thailand

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- Seemann J^a, **Sawall Y**, Auel H, Richter C (2010) Trophic plasticity of corals as an adaptation process to anthropogenic stresses from sedimentation and eutrophication in Spermonde Archipelago, Indonesia. 2nd Asian Pacific Coral Reef Symposium, Phuket, Thailand
- Sawall Y**, Jompa J, Richter C (2009) Metabolism of the hermatypic coral *Stylophora subseriata* and its acclimatization capacity under changing environmental conditions. World Ocean Conference, Manado, Indonesia
- Sawall Y**, Litaay M, Ruhon A^a, Richter C (2009) *Porites lutea*, a hard fighting strategist in a coral-unfriendly world - Metabolic adjustments of *Porites lutea*. Coral Reef Management Symposium on Coral Triangle Area, Jakarta, Indonesia
- Seemann J^a, **Sawall Y**, Bischof K, Auel H, Richter C (2009) Lipid and protein reserves as an indicator for coral resilience to anthropogenic stressors in the Spermonde Archipelago, Indonesia. Coral Reef Management Symposium on Coral Triangle Area, Jakarta, Indonesia
- Sawall Y**, Phongsuwan N, Richter C (2006, Poster) Recovery of coral communities after the Tsunami 2004 in Thailand. European Coral Reef Symposium in Bremen (ISRS)

Grants

- 2021 – 2024** NSF (National Science Foundation) Program: Chemical Oceanography. *Collaborative Research: In Situ Investigations and Historical Analysis of Eddy Impacts on coastal carbon chemistry and coral calcification*. Grant no.: #2123697, PI: **Y Sawall**, co-PIs: D Grundle (BIOS), N Goodkin (AMNH). Value: US\$ 721,000
- 2021 – 2023** NSF (National Science Foundation) Program: Infrastructure Capacity for Biological Research. *Major improvements of the outdoor mesocosm facility at the Bermuda institute of Ocean Sciences*. Grant no.: 2129274, PI: **Y Sawall**, co-PI: S de Putron (BIOS). Value: US\$343,000.
- 2020 - 2021** BIOS Cawthorn Research Innovation Fund. *Advancements in understanding in-situ organism metabolic rates via innovative incubation chambers and an oxygen isotope tracer approach*. PI: **Y Sawall**; co-PI: T Noyes (BIOS); in collaboration with Prof. (Emeritus) M Bender (Princeton). Value: US\$ 150,000.
- 2017 – 2019** DFG (German Research Foundation) funded Future Ocean Cluster of Excellence. *Is artificial upwelling a solution to coral bleaching threat?* PI: Y Feng (GEOMAR); Collaborators: **Y Sawall**, M Lebrato. Value: € 140,000 (no overhead included)
- 2017 - 2019** BIOS Cawthorn Research Innovation Fund. *Improving reef calcification measurements and exploring dynamics of reef functioning*. PIs: **Y Sawall**, EJ Hochberg, N Bates. Value: US\$ 150,000.
- 2016 - 2019** DFG (German Research Foundation) project. *Exploring functional interfaces: extreme biogenic fluctuations may amplify or buffer environmental stress on organisms associated with marine macrophytes*. Grant no.: SA 2791/3-1. **Y Sawall**. Value: € 264,000 (no overhead included)
- 2016** GEOMAR Technology Seed Funding. *Innovative automated water sampler for our advanced in-situ incubation chambers*. PI: **Y Sawall**; co-PIs: R Schwarz, M Franz. Value: € 8,000.
- 2015** DAAD (German Academic Exchange Service) short-term stipend. *Origin of coral thermal tolerance in the Red Sea: high resolution genotyping and identification of genotype-phenotype relationships using new high-end molecular tools (here ddRAD sequencing)*. **Y Sawall**. Value: 3 months post-doc salary and travel cost (€ 15,000)
- 2015 - 2017** DFG (German Research Foundation) funded Future Ocean Cluster of Excellence mini-proposal Award. *From one- to three- dimensional thinking in global change research:*

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Adding fluctuations to the usual static treatments may drastically change our understanding of pending environmental shifts. PI: C. Pansch, co-PI: **Y Sawall**, M Smaat, A Lehmann. Value: € 75,000 (no overhead included)

- 2010** DFG (German Research Foundation) funded graduate school ‘Bremen International Graduate School for Marine Science’ Award for conference participation. **Y Sawall**. Value: € 2,500
- 2009** DFG (German Research Foundation) funded graduate school ‘Bremen International Graduate School for Marine Science’ Award for a student helper salary. **Y Sawall**. Value: € 1,800

Teaching experience

- 2021** **Lecturer** of the 4-months BIOS Fall Semester in Marine Biology for undergraduates teaching Coral Reef Ecology and mentoring various student projects (BIOS)
- 2021** **Lecturer** of two 3-week BIOS summer courses in Coral Reef Ecology (CRE) for undergraduates and graduate students (BIOS)
- 2019** **Co-lecturer** of the 4-months BIOS Fall Semester in Marine Biology for undergraduates teaching Coral Reef Ecology and mentoring student projects in coral ecophysiology (BIOS)
- 2019** **Co-lecturer** of a 3-week BIOS summer course in Coral Reef Ecology (CRE) for undergraduates and graduate students (BIOS)
- 2019** **Guest lecturer** of Coral Reef Ecology for undergraduates and graduates (Arizona State University)
- 2018 & 2019** **Co-lecturer** of a 2-week John Hopkins University course on oceanography for undergraduates (BIOS)
- 2017 – pres.** **Lecturer** of different coral and seagrass related topics for visiting undergraduate and graduate students (BIOS)
- 2017 – pres.** **Lecturer** of Basic Statistics as part of the NSF-REU program (BIOS)
- 2013 – 2016** **Co-lecturer** of a 2-week practical course called ‘Advanced Biological Oceanography’ as part of the M.Sc. program ‘Biological Oceanography’ (GEOMAR)
- 2011 - 2012** **Lecturer** of a practical course in Marine Biology for visiting undergraduate Saudi-Arabian students (GEOMAR)
- 2011 - 2014** **Lecturer** for the ‘Current Topic’ seminar for the M.Sc. program ‘Biological Oceanography’ (GEOMAR). Topic: *Coral ecophysiology*.
- 2011** **Lecture** about sea stars as part of a children university summer program on the North Sea island Foehr
- 2008 - 2009** **Lecturer** for the undergraduate course ‘Tropical Marine Ecology Special Training Course’ (Hasanuddin University, Indonesia) Topics: *Snapshot of coral physiology* and *coral reef assessment*

Supervised undergraduate and graduate students

- 2021 – 2022** Sem Docekal (undergraduate), Van Hall Larenstein University (Netherlands), 6-months **internship** in coral heterotrophy
- 2021** Kelly Koehler (undergraduate), North Carolina State University (USA), NSF-REU 3-months **internship** in in-situ reef metabolism

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- 2021 Emie Woodburn (graduate), University of Victoria (Canada), 4-months **internship** in testing and optimizing a new in-situ method for coral metabolism measurements
- 2021 Benjamin Shirey (graduate), Eckerd College (USA), 10-week **internship** in coral diel pattern of coral metabolism
- 2021 Chloe Root (undergraduate), Eckerd College (USA), 10-week **internship** in coral photosynthetic performance
- 2021 Hanne Borstlap (undergraduate), Princeton University (USA), **internship** in data analysis (3- months virtual internship diurnal pattern of coral metabolism)
- 2021 Roderick Bakker (undergraduate), University of Leiden (Netherlands), **bachelor thesis** in coral seasonal changes in metabolism
- 2020 Alexis Savard-Drouin (undergraduate), Dalhousie University (Canada), **internship** in coral heterotrophy
- 2020 Natalia Padillo-Anthemides (undergraduate), Florida International University (USA), NSF-REU **internship** investigation coral daytime respiration
- 2020 Nicole Adams (undergraduate), University of California – San Diego (USA), NSF-REU **internship** investigation coral photo-protection
- 2020 Kathryn McLaughlin (undergraduate), Princeton University (USA), **internship** in data analyses (3- months virtual internship; coral photoacclimation to temperature)
- 2019 Charlie Schneider (undergraduate), Colorado College (USA), NSF-REU **internship** investigating diurnal respiration patterns in corals and algae
- 2019 Allison Doolittle (undergraduate), Los Angeles Harbor College (USA), NSF-REU **internship** testing the effect of oxybenzone on corals
- 2019 Anna Nicosia (undergraduate), Lehigh University (USA), **internship** in coral biology (photoacclimation to temperature)
- 2018-2019 Khalil Smith (undergraduate), University of Coastal Georgia (USA), **internship** in coral and seagrass ecology
- 2018 David Flesher (undergraduate), Arizona State University (USA), NSF-REU **internship** in coral and algae light use efficiencies (used data for **honors thesis**)
- 2018 Moronke Harris (undergraduate), University of Guelph (Canada), **internship** in coral ecophysiology
- 2017-2018 Ashley Miller (graduate), University of Bremen, **master thesis** in coral light-use efficiency
- 2017-2018 Zoe Pearson (graduate), University of Southampton (UK), **master thesis** in intra-colony variability of coral photosynthesis
- 2017 Kelly Chimpen Mac Leod (undergraduate), Towson University (MD, USA), NSF-REU **internship** in coral photosynthesis
- 2016 Derya Seifert (graduate), University of Kiel, **internship** in mussel protein expression
- 2015 Lisa Pfannenmüller (graduate), Hochschule Weihenstephan-Triesdorf, **internship** in macrophyte-epibiont interaction
- 2015 Lena Schröder (undergraduate), University of Kiel, **internship** in macrophyte-epibiont interaction
- 2013 Sabine Rech (graduate), University of Kiel, **internship** in coral tissue analyses
- 2013 Fabian Schuster (graduate), University of Kiel, **master thesis** in coral reef ecology
- 2012 Kolja Beisiegel (graduate), University of Kiel, **master thesis** in coral ecophysiology
- 2012 Madlen Friedrich (undergraduate), University of Würzburg, **internship** and **bachelor thesis** in coral protein expression
- 2012 Bianca Unger (graduate), University of Kiel, **internship** in coral tissue analyses

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- 2011 Mohammad Kayat (undergraduate), King Abdulaziz University in Jeddah, **internship** (Germany) and **bachelor thesis** (Saudi Arabia) in coral ecophysiology
- 2009 Janina Seemann (graduate), University of Bremen, **master thesis** in coral ecophysiology
- 2008 Rio Ahmand (undergraduate), Hasanuddin University in Makassar, **bachelor thesis** in ecotoxicology (Indonesia)
- 2008 Wilma Mokka (undergraduate), Hasanuddin University in Makassar, **internship** in coral ecophysiology

Major field programs

- 2017 **Palau.** Coral Reef Research Foundation (3 weeks). *Coral reef mapping for the project CORAL reef mapping for the project CORAL*
- 2016/17 **Hawaii.** Hawaiian Institute of Marine Biology (2 weeks in 2016 and in 2017). *Coral reef mapping for the project CORAL reef mapping for the project CORAL*
- 2016 **Australian Great Barrier Reef.** Lizard Island (2 weeks) and Heron Island (2 weeks). *Coral reef mapping for the project CORAL reef mapping for the project CORAL*
- 2012/13/14 **Baltic Sea research cruise** (RV Littorina, 10 days). *Benthic community monitoring*
- 2012 **Red Sea research cruise** (RV Pelagia, 2 weeks). *Corals of the mesophotic zone*
- 2012 **Saudi Arabia.** King Abdulaziz University (5 weeks). *Coral adjustment to strong temperature gradient in the Red Sea.* Land-based expedition led by **Y. Sawall.**
- 2011 **Saudi Arabia.** King Abdulaziz University (5 weeks). *Coral adjustment to strong temperature gradient in the Red Sea.* Land-based expedition led by **Y. Sawall**
- 2011 **Saudi Arabia.** King Abdulaziz University (4 weeks). *Coral reef exploration in the Red Sea over 11 latitudes (strong temperature gradient)*
- 2009 **Indonesia.** Hasanuddin University in Makassar (4 weeks). *Benthic community metabolism under different nutrient regimes and coral community & recruitment analyses*
- 2009 **Indonesia.** Hasanuddin University in Makassar (4 months). *Coral acclimatization to different nutrient regime and coral community & recruitment analyses*
- 2009 **Thailand.** Phuket Marine Biological Center (3 weeks). *Large amplitude internal wave effects on corals*
- 2008 **Indonesia.** Hasanuddin University in Makassar (3 months). *Coral acclimatization to different nutrient regime and coral community & recruitment analyses*
- 2008 **Indonesia.** Hasanuddin University in Makassar (2 months). **Thailand.** Phuket Marine Biological Center (2 weeks). *Coral acclimatization to different nutrient regimes.*
- 2007 **Indonesia.** Hasanuddin University in Makassar (3 weeks). *Coral reef assessment*
- 2005 – 2006 **Thailand.** Phuket Marine Biological Center (6 months). *Recovery of tsunami-impacted reefs in the Andaman Sea.*

Memberships and Professional Societies

- 2018 – pres. Member of the **Association for the Sciences of Limnology and Oceanography** (ASLO), USA
- 2014 – pres. Member of the **International Society for Reef Studies** (ISRS), USA

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- 2014 – 2017** Member of the **Arab-German Young Academy (AGYA) of Science and Humanities**, Berlin-Brandenburgische Akademie der Wissenschaften in Berlin, Germany
- 2013 – 2016** Member of the **Integrated Marine Postdoc Network (IMAP)** as part of the Cluster of Excellence ‘The Future Ocean’ in Kiel, Germany
- 2007 – 2010** Member of the **Bremen International Graduate School for Marine Sciences** with the focus ‘Global Change in the Marine Realm’ (GLOMAR), Center for Marine Environmental Sciences, Bremen, Germany

Additional activities and services

Reviewer for scientific journals: Journal of Limnology and Oceanography, Coral Reefs, ISME Journal, Marine Pollution Bulletin, PLoS ONE, Aquatic Biology, Marine Biology, Functional Ecology, Ecosystems

Reviewer for research proposals: MeerWissen – African-German Partners for Ocean Knowledge funded by the German Federal Ministry for Economic Cooperation and Development (2019)

Conference session lead:

- Sawall Y, Pisapia C, Andersson A (accepted) Session: Coral reef metabolism and biogeochemical processes (organism to ecosystem): What are current state and future trajectories of reef functioning? 14th International Coral Reef Symposium, Bremen, Germany, 2020 (postponed to 2021)
- Sawall Y, Bay L, Aranda M (2016) Townhall meeting: Coral epigenetic research. 13th International Coral Reef Symposium, Honolulu, Hawaii