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Google scholar <http://scholar.google.com/citations?user=x4UGiqMAAAAJ>

Researcher ID <http://www.researcherid.com/rid/O-4314-2015>

EDUCATION

- 2000 **Ph.D. in Conservation Biology**, University of York, UK.
Effects of multiple stresses on coral reef communities
Thesis advisor: Prof. Dr. Callum Roberts
- 1995 **M.Sc. (with distinction) in Aquaculture**, University of Stirling, UK.
Ecological effects of Pacific oyster intertidal cultivation on infaunal communities
Thesis advisor: Prof. Dr. Michel J. Kaiser
- 1995 **Diplôme d'ingénieur**, Institut Supérieur d'Agriculture (ISA), Lille, France

EMPLOYMENT

- 2011-present **Tenured Associate Professor** at the Ecole Pratique des Hautes Etudes (EPHE) with a Chaire d'Excellence CNRS. Nominated 1st December 2011. Tenure 1st December 2012. USR 3278 CRIOBE EPHE-CNRS-UPVD, Perpignan, France
- 2008-2011 **Research Scientist/Group leader**. Leibniz Center for Tropical Marine Ecology (ZMT), Bremen, Germany
- 2006-2008 **Post-doctoral researcher**. Royal Netherlands Institute for Sea Research (NIOZ), Texel, The Netherlands
- 2004-2006 **Research Assistant Professor**. Center for Marine Science, University of North Carolina Wilmington, USA
- 2002-2004 **Marie-Curie post-doctoral researcher**. Royal Netherlands Institute for Sea Research (NIOZ), Texel, The Netherlands

GRANTS AND AWARDS

- 2018-2019 **LabEx CORAIL**. ACIDINTERACT : *Effects of acidification on coral-cyanobacteria interaction* (€15k, collaborator)
- 2017-2019 **LabEx CORAIL**. PhD grant. CORALINE : *Understanding the interaction between crustose coralline algae and corals* (€85k, PI)
- 2017-2019 **Fondation de France**. ACIDREEF : *Ocean acidification : the other problem of coral reefs and island societies* (€150k, WP leader)
- 2017-2018 **LabEx CORAIL**. 1-yr postdoctoral grant. PATHOGEN : *Microbial communities associated with healthy and diseased crustose coralline algae* (€50k, collaborator)
- 2016-2017 **PEPS ExoMod CNRS**. ALGECO : *Crustose coralline algae : a new model to study the structure and functioning of coral reefs* (€32k, PI)

- 2016-2018 **Contrat de Projets Etat - Polynésie française. Moorea : an open laboratory to understand changes in coral reef ecosystems** (€250k, WP leader)
- 2016-2017 **LabEx CORAIL. 1-yr postdoctoral grant. IRON : Iron limitation in benthic algae and global disparity in coral reef resilience** (€50k, PI)
- 2015-2017 **Ministère des Outre-Mer. AQUA-CORAL : Coral husbandry and reef restoration in the face of climate change** (€25k, collaborator)
- 2015-2016 **LabEx CORAIL. ARCOS : Improving coral resistance against environmental stress using sexual reproduction** (€80k, collaborator)
- 2013-2018 **Ministère fédéral allemand de l'Éducation et de la Recherche (BMBF). REPICORE : Resilience of South Pacific coral reef social-ecological systems in times of global change** (€1.3m, collaborator)
- 2011-2016 **CNRS Chaire d'Excellence Section 29** (€150k)
- 2010-2015 **European Union FP7. FORCE : Future of Coral Reefs in a Changing Environment. Project coordinated by the University of Exeter, €6.4m involving 21 partners from the Caribbean, Europe and US** (€350k, PI and WP leader; 2 x 4-yrs PhD positions included)
- 2008-2011 **Ministère fédéral allemand de l'Éducation et de la Recherche (BMBF). SPICE : Science for the Protection of Indonesian Coastal Ecosystems. Project coordinated by ZMT, €4.5m (Leader of the cluster 'Coral Reef-Based Ecosystems and Resources')**
- 2008-2009 **Ministère fédéral allemand de l'Éducation et de la Recherche (BMBF). LANCET : Land-Sea Interactions in Coastal Ecosystems of Tropical China. Project coordinated by ZMT, €1.0m (Leader of the subproject 1 'Current Status and Regulatory Functions of Hainan Coral Reefs')**
- 2006-2008 **Netherlands Organisation for Scientific Research WOTRO. East Kalimantan Program : Coral condition, coral disease and algal/coral overgrowth in the Berau coral reef system. (€300k, postdoc)**
- 2004-2006 **NOAA. Recruitment of *Montastraea annularis* (species complex): Factors that affect post-settlement survivorship. (€100k, collaborator)**
- 2002-2004 **Marie-Curie postdoctoral grant EVK3-CT-2001-50007 Structure of coral-algal overgrowth hierarchies : ecological strategies and anthropogenic impacts** (€250k)

TEACHING

- 2017 **Course coordinator** Master 2 EPHE « *Biodiversité, Écologie et Conservation des organismes coralliens* »
- 2017 **Course coordinator** Master 2 EPHE « *Écologie chimique marine* » (in collaboration with Master UPVD, UPVD coordinator: Nataly Tapissier-Bontemps)
- 2017 **Lecturer** in PSL course « *Récifs coralliens* »
- 2017 **Lecturer** in PSL PhD course « *Les récifs coralliens : Biodiversité, Biologie, Ecologie, Savoirs ancestraux et Gestion* »
- 2013 **Lecturer** in Master EIO Université de Polynésie Française UE 2.2 « *Biodiversité, Biologie, Ecologie et conservation des organismes coralliens* »
- 2011-2016 **Lecturer** in Master EPHE « *Structure et fonctionnement des écosystèmes coralliens* » et « *Ecologie marine* »
- 2009 **Course coordinator** Master ZMT/Université d'Agriculture de Bogor « *Coral reef biology and conservation* », DKP/IPB Coastal and Marine Management Sandwich Program

- 2008 **Lecturer** in Master ZMT/Université d'Hasanuddin « *Coral reef ecology* »
- 2008 **Course co-coordinator** Master 020BS Université d'Amsterdam « *Tropical marine biology* »
- 2006 **Course co-coordinator** Licence et Master Université de Caroline du Nord Wilmington BIO 485&585 « *Coral reef ecology* »
- 2005 **Lecturer** in Licence et Master Université de Caroline du Nord Wilmington BIO 585&480 « *Research methods in coral reefs and adjacent ecosystems* »
- 2002-2004 **Lecturer** in Master Université d'Amsterdam « *Coral reef ecosystems* »
- 2001 **Lecturer** in Licence Université de York « *Coastal zone management* »

STUDENT SUPERVISION

Main supervisor of 1 postdoc, 4 PhD thesis (1 ongoing) and 6 MSc thesis. Co-supervisor of 2 PhD thesis (1 ongoing) and 11 Master thesis.

Postdoctoral scholars

- 2016-2017 Joost den Haan, EPHE, France. *Iron limitation in benthic algae and global disparity in coral reef resilience*. Postdoctoral grant LabEx CORAIL. Research funding Chaire d'Excellence CNRS (main supervisor)

PhD students

- 2017-pres Hendrikje Jorissen, EPHE, France. *Comprendre l'interaction algues corallines –coraux*. PhD grant LabEx CORAIL. Research funding: ALGECO (main supervisor)
- 2016-pres Hugo Jacob, EPHE, France. *How fishes regulate the coral-algal competition in the context of global and local anthropogenic stressors?* PhD grant EPHE (co-supervisor)
- 2013-2017 Amanda Ford, University of Bremen, Germany. *Resilience of benthic coral reef communities in Melanesia, South Pacific*. PhD grant and funding: REPICORE (co-supervisor)
- 2010-2015 Gaëlle Quéré, University of Bremen, Germany. *Ecology and driving factors of disease affecting crustose coralline algae and their effects on reef recovery processes*. PhD grant and research funding: FORCE (main supervisor)
- 2010-2014 Hannah Brocke, University of Bremen, Germany. *Impacts of benthic cyanobacterial mats on coral reef ecosystems*. PhD grant and research funding: FORCE (main supervisor)
- 2009-2012 Alexander Wolf, University of Bremen, Germany. *The role of macroalgae and the corallivorous fireworm *Hermodice carunculata* on coral reef resilience in the Caribbean*. PhD grant and research funding: ZMT (main supervisor)

MSc students

- 2016-2017 Mona Angskog, Master ISATEC, University of Bremen, Germany. *Detecting nutrient limitation in benthic algae using hyperspectral imaging*
- 2016-2017 Hannah Earp, Master ISATEC, University of Bremen, Germany. *The nutrient limitation status of benthic reef macroalgae (*Phaeophyceae*) in Moorea, French Polynesia*
- 2016 Virgine Marqués, Master 1 EPHE, France. *Characterization of the coralline algae-coral interaction: implications for coral larvae settlement*
- 2013-2015 Hendrikje Jorissen, MSc, Wageningen University, The Netherlands. *Physical and chemical microenvironments in coral-algal interactions*

- 2012-2013 Henry Göhlich, MSc, University of Rostock, Germany. *Comparison of phosphate uptake by different benthic coral reef communities*
- 2011-2013 Carla Sandermann, MSc, University of Oldenburg, Germany. *Primary production of benthic coral reef organisms along a depth gradient*
- 2011-2013 Johannes Schicker, MSc, University of Würzburg, Germany. *Effects of the brown alga *Lobophora variegata* on the growth and survival of juvenile Caribbean corals*
- 2010-2012 Janine Jachtner, Master ISATEC, University of Bremen, Germany. *Effects of grazer exclusion and nutrient enrichment on primary algal succession and coral settlement success*
- 2010-2011 Bastian Piltz, MSc, Institut Max-Planck Brême, Germany. *Diversity of benthic cyanobacteria on coral reefs in Curaçao*
- 2009-2010 Daniel Wangpraseurt, Master ISATEC, University of Bremen, Germany. *The in situ microenvironment of corals and benthic algae: Assessing coral-algal interactions on a micro-scale*
- 2008-2009 Svenja Beilfuss, Master ISATEC, University of Bremen, Germany. *Feeding impact of herbivorous fishes on the brown alga *Lobophora variegata*: a species-specific approach along a depth gradient*
- 2008-2009 Bart de Vries, MSc, University of Amsterdam, The Netherlands. *Effects of sea urchin grazing on coral settlement and post-settlement survivorship*
- 2008-2009 Sander de Groot, MSc, University of Amsterdam, The Netherlands. *Relationship between the abundance of *Diadema antillarum* and juvenile corals on coral reefs in Curaçao*
- 2003-2004 Maria Ines Seabra, MSc, University of Amsterdam, The Netherlands. *Interactions between scleractinian corals and benthic algae in Curaçao, Netherlands Antilles*
- 2003-2004 Ruben van Hoodonk, MSc, University of Amsterdam, The Netherlands. *Competition between corals and macroalgae: do size and species matter?*
- 2002-2003 Hannelore Waska, MSc, University of Amsterdam, The Netherlands. *Coral-algal interactions and their forcing factors on the south coast of Curaçao, Netherlands Antilles*
- 2002-2003 Matthijs van der Geest, MSc, University of Amsterdam, The Netherlands. *How is coral overgrowth by macroalgae structured in coral reefs of Curaçao?*

BSc students

- 2011 Nicole Herz, University of Bremen, Germany. *Benthic Cyanobacteria in the Caribbean, a new challenge for coral reefs*
- 2005 Tyler Cyronak, University of North Carolina Wilmington, USA. *Infaunal communities of *Halimeda opuntia* on coral reefs of the Caribbean Island of Curaçao*
- 2005 Matthew Williams, University of North Carolina Wilmington, USA. *Association between coral disease and contact with macroalgae*

Research assistants/trainees

- 2017 Chérine Baumgartner, Sonora Meiling
- 2016 Sydney Dillon, Marina Schiller
- 2015-2016 Pauline Mittlerwallner, Christopher Nowak, Ramona Brunner
- 2013-2014 Christina Skinner
- 2012 Rachele Longhitano, Shira de Koning

- 2011 Michael Doane, Rachele Longhitano, Eric Johnson, Nanne Van Hoytema, Jon Chamberlain, Kim Vane
- 2010 Christine Stolberg, Philipp Kutter

ORGANISATION OF WORKSHOPS & CONFERENCES

- 2016 Leg Tara in French Polynesia « *Exploring the interaction between corals and crustose coralline algae* », Tara Pacific Expedition (October 6-20) (co-coordinator)
- 2016 Mini-symposium « *Global Change impacts on Coral Reef Seaweeds* », 13^{ième} International Coral Reef Symposium, Hawaii, USA (June 19-24) (co-organisator)
- 2016 Chercheuriales USR3278, Perpignan, France (January 6) (co-organisator)
- 2013 Chercheuriales USR3278, Perpignan, France (June 20) (co-organisator)
- 2012 Workshop international « *Physiologie et reproduction du corail* », Aquarium de la Porte Dorée, Paris, France (December 13-15) (co-organisator)

PEER REVIEW

- Manuscripts *Botanica Marina, Coral Reefs, Disease of Aquatic Organisms, Ecology Letters, Environmental Conservation, Limnology & Oceanography, Marine Biology, Marine Biodiversity, Marine Ecology Progress Series, Marine Environmental Research, Marine & Freshwater Research, Marine Pollution Bulletin, Oikos, PLoS ONE, Restoration Ecology, Royal Society Open Science, Scientific Reports, Terre et Vie*
- Grants *Labex Corail, King Abdullah University of Science and Technology, National Science Foundation, NOAA Undersea Research Program, Fonds de Recherche Scientifique pour la Flandre*

OTHER RESPONSABILITIES

- Member of the Scientific Council of the EPHE (2014-present)
- Jury member of the Masters of the EPHE (2013- 2014)
- Member of the Teaching Committee of the EPHE section SVT (2012-2014)
- PhD thesis examiner: Jessica Haapkyla (2012), Chiara Pisapia (2015), Christopher Vieira (2015)
- Member of Bremen International Graduate School for Marine Sciences (GLOMAR) (2010-present)
- Member of the Editorial Board of the journal *Coral Reefs* (2010-present)
- Member of the Association of Marine Laboratories of the Caribbean (AMLC) (2005-2008)
- Member of the International Society for Reef Studies (ISRS) (2001-present)

LANGUAGES

French (native tongue), English (fluent), German (fluent)

OTHER QUALIFICATIONS

- Professional scientific diver CAH Classe 1B, Nitrox Diver (NAUD), Dive certification CMAS***
- > 2000 logged dives
- Boat licence (North Carolina Wildlife Resources Commission)
- CPR/First Aid (American Heart Association)