

## MAGGY M. NUGUES

École Pratique des Hautes Études (EPHE)

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

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

### EDUCATION

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- 2017      **Habilitation (HDR)**, École Pratique des Hautes Études (EPHE), France.  
*The ecology of coral reef algae and their negative and positive interactions with corals*  
Habilitation director: Prof. Dr. Serge Planes
- 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

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- 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

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- 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* (€87k, 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* (€47k, 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* (€47k, PI)
- 2015-2017 **Ministère des Outre-Mer (MOM). 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 **Federal Ministry of Education and Research (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 **Federal Ministry of Education and Research (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 **Federal Ministry of Education and Research (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 **Postdoctoral grant WOTRO (Netherlands Organisation for Scientific Research) WT 84-617. East Kalimantan Program** : *Coral condition, coral disease and algal/coral overgrowth in the Berau coral reef system* (€300k)
- 2004-2006 **National Oceanic and Atmospheric Administration (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-pres **Module leader** Master 2 EPHE « *Biodiversité, Écologie et Conservation des organismes coralliens* »
- 2017-pres **Module leader** Master 2 EPHE « *Écologie chimique marine* » (in collaboration with Master UPVD, UPVD coordinator: Nataly Tapissier-Bontemps)
- 2017-pres **Contributor** in PSL course « *Récifs coralliens* »
- 2017-pres **Contributor** in PSL PhD course « *Les récifs coralliens : Biodiversité, Biologie, Ecologie, Savoirs ancestraux et Gestion* »
- 2013 **Contributor** in Master EIO University of French Polynesia UE 2.2 « *Biodiversité, Biologie, Ecologie et conservation des organismes coralliens* »
- 2011-2016 **Contributor** in Master EPHE « *Structure et fonctionnement des écosystèmes coralliens* » et « *Écologie marine* »

- 2009 **Module leader** Master ZMT/Bogor Agricultural University « *Coral reef biology and conservation* », DKP/IPB Coastal and Marine Management Sandwich Program
- 2008 **Lecturer** in Master ZMT/Hasanuddin University « *Coral reef ecology* »
- 2008 **Module co-leader** Master 020BS University of Amsterdam « *Tropical marine biology* »
- 2006 **Module co-leader** Bachelor and Master University of North Carolina Wilmington BIO 485&585 « *Coral reef ecology* »
- 2005 **Contributor** in Bachelor and Master University of North Carolina Wilmington BIO 585&480 « *Research methods in coral reefs and adjacent ecosystems* »
- 2002-2004 **Contributor** in Master University of Amsterdam « *Coral reef ecosystems* »
- 2001 **Contributor** in Bachelor University of York « *Coastal zone management* »

### STUDENT SUPERVISION

**Main supervisor of 1 postdoc, 4 PhD thesis (1 ongoing) and 12 MSc thesis. Co-supervisor of 1 PhD thesis and 12 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)
- 2013-2017 Amanda Ford, University of Bremen, Germany. *Resilience of benthic coral reef communities in Melanesia, South Pacific*. PhD grant and research 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*

- 2018 Arthur Gilson, Master 2 EPHE, France. *Role of benthic communities in the early life history of reef-building corals*
- 2017 Chérine Baumgartner, Master in Environmental sciences, ETH Zurich, Switzerland. *Interactions between juvenile corals and coralline algae*
- 2016 Sydney Dillon, MSc Marine Biology and Ecology, James Cook University, Australia. *Settlement and post-settlement survival of laboratory-settled corals in the lagoon and reef slope of Moorea*
- 2016 Marina Schiller, MSc Biology, Ruhr University Bochum, Germany. *Settlement and post-settlement survival of laboratory-settled corals on tiles exposed to temperature stress*

- 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*
- 2015-2016 Pauline Mitterwallner, MSc Marine Biology, University of Rostock, Germany. *Structure and identification of macroalgal browsers and substratum grazers in Moorea*
- 2015-2016 Christopher Nowak, MSc Marine Biology, University of Bremen, Germany. *Coral larval behaviour and perception of chemical cues*
- 2015-2016 Ramona Brunner, MSc ISATEC, University of Bremen, Germany. *Coral larval behaviour and perception of chemical cues*
- 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 Bremen, 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 Hooidonk, 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 Matthjis van der Geest, MSc, University of Amsterdam, The Netherlands. *How is coral overgrowth by macroalgae structured in coral reefs of Curaçao?*

**BSc students**

- 2017 Sonora Meiling, Oregon University, USA. *Effects of coralline algae on coral settlement*
- 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**

- 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<sup>th</sup> International Coral Reef Symposium, Hawaii, USA (June 19-24) (co-organisator)
- 2016 Chercheuriales USR3278, Perpignan, France (January 6)
- 2013 Chercheuriales USR3278, Perpignan, France (June 20)
- 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, Ecological Indicators, Ecology Letters, Environmental Conservation, Frontiers in Marine Science, 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 Teaching Committee of the EPHE section SVT (2012-2014, 2018-present)
- Member of the Scientific Council of the EPHE (2015-2017)
- Jury member of the Masters of the EPHE (2013- 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

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

## OTHER QUALIFICATIONS

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Professional scientific diver CAH Classe 1B, Nitrox Diver (NAUI), Dive certification CMAS\*\*\*

> 2000 logged dives

Boat licence (North Carolina Wildlife Resources Commission)

CPR/First Aid (American Heart Association)

## PUBLICATION LIST

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### *Peer-reviewed journal articles*

1. Lecchini D, Bertucci F, Gache C, Khalife A, Besson M, Roux N, Berthe C, Singh S, Parmentier E, **Nugues MM**, Brooker RM, Dixson DL, Hédouin L (2018) Boat noise prevents soundscape-based habitat selection by coral planulae. *Scientific Reports* 8: 9283.
2. Bulleri F, Thiault L, Mills SC, **Nugues MM**, Eckert EM, Corno G, Claudet J (2018) Erect macroalgae influence epilithic bacterial assemblages and reduce coral recruitment. *Marine Ecology Progress Series* 597: 65-77.
3. Ford AK, Bejarano S, **Nugues MM**, Visser PM, Albert S, Ferse SCA (2018) Reefs under siege—the rise, putative drivers, and consequences of benthic cyanobacterial mats. *Front. Mar. Sci.* 5: 18.
4. Fricke A, Titlyanova TV, Teichberg M, **Nugues MM**, Bischof K (2018) The Chlorophytes of Curaçao (Caribbean) – a revised checklist for the south-west coast. *Botanica Marina* 61: 33-46.
5. Ford AK, Eich A, McAndrews R, Mangubhai S, **Nugues MM**, Bejarano S, Moore BR, Rico C, Wild C, Ferse SCA (2018). Evaluation of coral reef management effectiveness using conventional versus newly developed monitoring metrics. *Ecological Indicators* 85: 308-317.
6. Meistertzheim A-L, **Nugues MM**, Quéré G, Galand PE (2017) Pathobiomes differ between two diseases affecting reef building coralline algae. *Frontiers in Microbiology* 8: 1686.
7. de Bakker DM, van Duyl FC, Bak RPM, **Nugues MM**, Nieuwland G, Meesters EH (2017) 40 Years of benthic community change on the Caribbean reefs of Curaçao and Bonaire: the rise of slimy cyanobacterial mats. *Coral Reefs* 36: 355-367.
8. Jorissen H, Skinner C, Osinga R, de Beer D, **Nugues MM** (2016) Evidence for water-mediated mechanisms in coral–algal interactions. *Proceedings of the Royal Society of London B* 283: 20161137.
9. Bégin C, Schelten CK, **Nugues MM**, Hawkins J, Roberts C, Côté IM (2016) Effects of protection and sediment stress on coral reefs in Saint Lucia. *Plos One* 11: e0146855.
10. Quéré G, **Nugues MM** (2015) Coralline algae disease reduces survival and settlement success of coral planulae in laboratory experiments. *Coral Reefs* 34: 863-870.
11. Quéré G, Meistertzheim A, Steneck RS, **Nugues MM** (2015) Histopathology of crustose coralline algae affected by white band and white patch diseases. *PeerJ* 3: e1034.
12. Brocke HJ, Polerecky L, de Beer D, Weber M, Claudet J, **Nugues MM** (2015) Organic matter degradation drives benthic cyanobacterial mat abundance on Caribbean coral reefs. *Plos One* 10: e0125445.

13. Brocke HJ, Wenzhoefer F, de Beer D, Mueller B, van Duyl FC, **Nugues MM** (2015) High dissolved organic carbon release by benthic cyanobacterial mats in a Caribbean reef ecosystem. *Scientific Reports* 5: 8852.
14. Quéré G, Steneck RS, **Nugues MM** (2015) Spatiotemporal and species-specific patterns of diseases affecting crustose coralline algae in Curaçao. *Coral Reefs* 34: 259-273.
15. Wolf AT, **Nugues MM**, Wild C (2014) Distribution, food preference and trophic position of the corallivorous fireworm *Hermodice carunculata* in a Caribbean coral reef. *Coral Reefs* 33: 1153-1163.
16. Fricke A, Teichberg M, **Nugues MM**, Beilfuss S, Bischof K (2014) Effects of depth and ultraviolet radiation on coral reef turf algae. *Journal of Experimental Marine Biology and Ecology* 461: 73-84.
17. Roff G, Bejarano S, Bozec Y-M, **Nugues M**, Steneck RS, Mumby PJ (2014) *Porites* and the Phoenix effect: unprecedented recovery after a mass coral bleaching event at Rangiroa Atoll, French Polynesia. *Marine Biology* 161: 1385-1393.
18. Wolf AT, **Nugues MM** (2013) Synergistic effects of algal overgrowth and corallivory on Caribbean reef-building corals. *Ecology* 94: 1667-1674.
19. Ferse SCA, **Nugues MM**, Romatzki SBC, Kunzmann A (2013) Examining the use of mass transplantation of brooding and spawning corals to support natural coral recruitment in Sulawesi/Indonesia. *Restoration Ecology* 21: 745-754.
20. Sweet MJ, Bythell JC, **Nugues MM** (2013) Algae as reservoirs for coral pathogens. *Plos One* 8: e69717.
21. Ahrens J, Borda E, Barroso R, Paiva P, Campbell A, Wolf AT, **Nugues MM**, Rouse G, Schulze A (2013) The curious case of *Hermodice carunculata* (Annelida: Amphinomididae): evidence for genetic homogeneity throughout the Atlantic Ocean and adjacent basins. *Molecular Ecology* 22: 2280-2291.
22. Fricke A, Titlyanova TV, **Nugues MM**, Bischof K (2013) *Neosiphonia howei* (Ceramiaceae, Rhodomelaceae) – a common epiphyte of the spreading coral reef alga *Lobophora variegata* (Dictyotales, Dictyotaceae). *Marine Biodiversity Records* 6: e3.
23. Wolf AT, **Nugues MM** (2013) Predation on coral settlers by the corallivorous fireworm *Hermodice carunculata*. *Coral Reefs* 32: 227-231.
24. Meesters EH, Müller B, **Nugues MM** (2013) Caribbean free-living corals co-occurring in the same habitat off the windward coast of Curaçao. *Coral Reefs* 32: 109.
25. Wangpraseurt D, Weber M, Røy H, Polerecky L, Suharsono, de Beer D, **Nugues MM** (2012) In Situ Oxygen Dynamics in Coral-Algal Interactions. *Plos One* 7: e31192.
26. Fricke A, Titlyanova, TV, **Nugues MM**, Bischof K (2011) Depth-related variation in epiphytic communities growing on the brown alga *Lobophora variegata* in a Caribbean coral reef. *Coral Reefs* 30: 967-973.
27. Nagelkerken I, van der Velde G, Wartenbergh SLJ, **Nugues MM**, Pratchett MS (2009) Cryptic dietary components reduce dietary overlap among sympatric butterflyfishes (Chaetodontidae). *Journal of Fish Biology* 75: 1123-1143.
28. **Nugues MM**, Bak RPM (2009) Brown band syndrome on feeding scars of the crown-of-thorn starfish *Acanthaster planci*. *Coral Reefs* 28: 507-510.
29. **Nugues MM**, Bak RPM (2008) Long-term dynamics of the brown macroalga *Lobophora variegata* on deep reefs in Curaçao. *Coral Reefs* 27: 389-393.
30. **Nugues MM**, Bak RPM (2007) Dark spot syndrome: recent or old? *Coral Reefs* 26: 359.
31. **Nugues MM**, Nagelkerken I (2006) Status of aspergillosis and sea fan populations in Curaçao ten years after the 1995 Caribbean epizootic. *Revista de Biologia Tropical* 54 (Supplement 3): 153-160.
32. **Nugues MM**, Szmant AM (2006) Coral settlement onto *Halimeda opuntia*: a fatal attraction to an ephemeral substrate? *Coral Reefs* 25: 585-591.

33. **Nugues MM**, Bak RPM (2006) Differential competitive abilities between Caribbean coral species and a brown alga: a year of experiments and a long term perspective. *Marine Ecology Progress Series* 315: 75-86.
34. Hawkins JP, Roberts CM, Dytham C, Schelten, CK, **Nugues MM** (2006) Effects of habitat quality and sediment pollution on performance of marine reserves in St. Lucia. *Biological Conservation* 127: 487-499.
35. **Nugues MM**, Smith GW, van Hooidonk RJ, Seabra MI, Bak RPM (2004) Algal contact as a trigger for coral disease. *Ecology Letters* 7: 919-923.
36. **Nugues MM**, Delvoye L, Bak RPM (2004) Coral defense against macroalgae: differential effects of mesenterial filaments on the green alga *Halimeda opuntia*. *Marine Ecology Progress Series* 278: 103-114.
37. **Nugues MM**, Roberts CM (2003) Coral mortality and competition with algae in relation to sedimentation. *Coral Reefs* 22: 507-516.
38. **Nugues MM**, Roberts CM (2003) Partial mortality in massive reef corals as an indicator of sediment stress on coral reefs. *Marine Pollution Bulletin* 46: 314-323.
39. **Nugues MM** (2002) Impact of a coral disease outbreak on coral communities in St. Lucia: What and how much has been lost? *Marine Ecology Progress Series* 229: 61-71.
40. **Nugues MM**, Kaiser MJ, Spencer BE, Edwards DB (1996) Benthic community changes associated with intertidal oyster cultivation. *Aquaculture Research* 27: 913-924.
41. McClanahan TR, **Nugues M**, Mwachireya S (1994) Fish and sea urchin herbivory and competition in Kenyan coral reef lagoons: the role of reef management. *Journal of Experimental Marine Biology and Ecology* 184: 237-254.

#### **Conference proceedings**

1. Wolf AT, Wild C, **Nugues MM** (2012) Contact with macroalgae causes variable coral mortality in *Montastraea faveolata*. *Proc. 12<sup>th</sup> International Coral Reef Symposium*, Cairns, Australie. 11C-1

#### **Books**

1. Mumby PJ, Flower J, Cholett I, Box SJ, Bozec YM, Fitzsimmons C, Forster J, Gill D, Griffith-Mumby R, Oxenford HA, Peterson AM, Stead SM, Turner RA, Townsley P, van Beukering PJH, Booker F, Brocke HJ, Cabañillas-Terán N, Canty SWJ, Carricart-Ganivet JP, Chralery J, Dryden C, van Duyl FC, Enríquez S, den Haan J, Iglesias-Prieto R, Kennedy EV, Mahon R, Mueller B, Newman SP, **Nugues MM**, Cortés Múñez J, Nurse L, Osinga R, Paris CB, Petersen D, Polunin, NVC, Sánchez C, Schep S, Steven JR, Vallès H, Vermeij MJA, Visser PM, Whittingham E, Williams SM (2014) Towards reef resilience and sustainable livelihoods. A handbook for Caribbean coral reef managers. University of Exeter, Exeter, 172p. ISBN 978-0-902746-31-2.
2. Bosserelle P, Berteaux-Lecellier V, Chancerelle Y, Hédouin L, **Nugues M**, Wallace C & Pichon M (2014) Guide d'identification des coraux de Moorea. CRIOBE. 120 pages. ISBN: 978-2-9547466-0-9.

#### **Book chapters**

1. Jackson JBC, Donovan MK, Cramer KL, Lam VYY, Bak RPM, Cholett I, Connolly SR, Cortés J, Dustan P, Eakin CM, Friedlander AM, Greenstein BJ, Heron SF, Hughes T, Miller J, Mumby P, Pandolfi JM, Rogers CS, Steneck R, Weil E, Alemu JB, Alevizon WS, Arias-González JE, Atkinson A, Ballantine DL, Bastidas C, Bouchon C, Bouchon-Navaro Y, Box S, Brathwaite A, Bruno JF, Caldow C, Carpenter RC, Charpentier BH, Causez B, Chiappone M, Claro R, Cróquer A, Debrot AO, Edmunds P, Fenner D, Fonseca A, Ford MC, Forman K, Forrester GE, Garza-Perez JR, Gayle PMH, Grimsditch GD, Guzmán HM, Harborne AR, Hardt MJ, Hixon M, Idjadi J, Jap W, Jeffrey CFG, Johnson AE, Jordán-Dahlgren E, Koltés K, Lang JC, Loya Y, Majil I, Manfrino C, Maréchal JP, McCoy CMR, McField MD, Murdoch T, Nagelkerken I, Nemeth R, **Nugues MM**, Oxenford HA, Paredes G, Pitt JM, Polunin NVC, Portillo P, Reyes HB, Rodríguez-Martínez



A, Ruttenberg BI, Ruzicka R, Sandin S, Shulman MJ, Smith SR, Smith TB, Sommer B, Stallings C, Torres RE, Tunnel JW, Vermeij MJA, Williams ID, Witman JD (2014) Overview and synthesis for the wider Caribbean region. Part I in: Jackson JBC, Donovan MK, Cramer KL, Lam VV (Eds.) Status and Trends of Caribbean Coral Reefs: 1970-2012. Global Coral Reef Monitoring Network, IUCN, Gland, Switzerland, pp. 55-157.

2. **Nugues MM**, Ferse SCA (2011) Measures to protect coral reefs - Maßnahmen zum Schutz von Korallenriffen. Chapter 5.4 in: Lozán JL, Graßl H, Karbe L, Reise K (Eds.) Warnsignal Klima: Die Meere - Änderungen und Risiken. Wissenschaftliche Auswertungen, Hamburg, Germany, pp. 330-336.

#### **Oral presentations at international conference**

1. Kermagoret C, Claudet J, Derolez V, **Nugues M**, Ouisse V, Quillien N, Baulaz Y, Carlier A, Le Mao P, Scemama P, Vaschalde D, Bailly D, Mongruel R (2018) How does the eutrophication affect ecosystem service supply? A state-and-transition model. *World Conference on Marine Biodiversity*, Montreal, Canada (May 13-16).
2. Earp H, den Haan J, Teichberg M, Burkepille D, **Nugues MM** (2017) The nutrient limitation status of benthic reef macroalgae (Phaeophyceae) in Moorea, French Polynesia. *European Coral Reef Symposium*, Oxford, UK (December 13-15).
3. van Bleijswijk J, van Duyl F, Wuchter C, Witte H, **Nugues MM**, Coolen M, Bak R (2017) Persistent change of microbial community in massive porites released from contact stress by the macroalga *Halimeda macrophysa*. *7<sup>th</sup> Congress of European Microbiologists*, Valencia, Spain (July 9-13).
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11. Wolf AT, **Nugues MM**, Wild C (2012). The ecological role of the corallivorous fireworm *Hermodice carunculata* on coral reef resilience. *Young Reef Scientists Meeting*, Berlin, Germany (October 6)
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19. Wangpraseurt D, Polerecky L, Weber M, de Beer D, **Nugues MM** (2010) In situ characterisation of oxygen microenvironments in coral-algal interactions. *Euro ISRS Symposium*, Wageningen, The Netherlands (December 13-17).
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21. Teichberg M, Fox SE, Valiela I, Fricke A, Beilfuss S, **Nugues MM**, Bischof K (2009) Macroalgal blooms in temperate and tropical coastal waters: Nutrient enrichment, grazing, and ecophysiological field experiments. *Coastal Estuarine Research Federation Meeting*, Portland, USA (November 5).
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23. **Nugues MM**, Nieuwland G, Suharsono, Bak RPM. (2007) Coral diseases and *Acanthaster* predation in tabular acroporids of the East Kalimantan coast. *Dutch Coral Reef Symposium*, Amsterdam, the Netherlands (December 17).
24. Bak RPM, Nieuwland G, **Nugues MM** (2007) Variation in corals and coral reefs: what is relevant for reef aquarists and coral husbandry? *1<sup>st</sup> International Symposium of Coral Husbandry in Public Aquaria*, Arnhem, the Netherlands (April 16-21).
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27. **Nugues MM**, Smith GW, Bak RPM (2004) Algal overgrowth, coral disease and phase shifts on coral reefs: Are they linked? *10<sup>th</sup> International Coral Reef Symposium*, Okinawa, Japan (June 28-July 3).
28. Seabra MI, **Nugues MM**, van Hooijdonk RJ, Bak RPM (2003) Dynamics behind coral-algal interactions on a Caribbean reef. *38<sup>th</sup> European Marine Biology Symposium*, Aveiro, Portugal (September 8-12).
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30. **Nugues MM**, Roberts CM, Hawkins JP (2000) Effects of sedimentation and herbivory on macroalgal abundance and competition with corals on a Caribbean coral reef. *9<sup>th</sup> International Coral Reef Symposium*, Bali, Indonesia (October 23-27).

31. **Nugues MM** (2000) Partial mortality in massive reef corals as an indicator of sediment stress on coral reefs. *Student conference on Conservation Science*, Cambridge, UK (March 29-31).
32. **Nugues MM** (1998) The impact of a white-band disease epizootic on coral communities in St. Lucia. *International Society for Reef Studies (ISRS) European Meeting*, Perpignan, France (September 1-4).

#### **Conference posters**

1. Quéré G, Galand PE, Meisterzheim A-L, Ghiglione J-F, **Nugues MM**, Payri CE (2017) Pathobiomes differ between distinct diseases affecting reef building coralline algae in Pacific islands. *European Coral Reef Symposium*, Oxford, UK (December 13-15).
2. den Haan J, Brocke HJ, Visser PM, **Nugues MM**, Huisman J, Vermeij MJA, Mueller B (2016) The contribution of different phototrophic organisms to the primary productivity of a Caribbean coral reef community. *13<sup>th</sup> International Coral Reef Symposium*, Honolulu, Hawaii (June 19-24).
3. Fricke A, Titlyanova T, Yousif A, Teichberg M, **Nugues MM**, Wulff A, Bischof K (2012) Epiphytic algae – a hidden diversity spreading over coral reefs. *CERF*, Mar del Plata, Argentina (November 11-14).
4. Kutter P, Sardemann C, Brocke H, **Nugues MM**, Vermeij M, Visser P, den Haan J (2012) Differences in primary production of benthic groups on coral reefs. *YOUMARES Conference*, Lübeck, Germany (September 12-14). 3<sup>rd</sup> Poster award.
5. Goehlich H, Brocke H, **Nugues MM**, Karsten U, Vermeij M, Visser P, den Haan J (2012) Differences in phosphate uptake rates by benthic organisms on Curaçao. *YOUMARES Conference*, Lübeck, Germany (September 12-14). 2<sup>nd</sup> Poster award.
6. Wolf AT, **Nugues MM** (2011) Contact with seaweeds enhances corallivory in the Caribbean. *YOUMARES Conference*, Bremerhaven, Germany (September 7-9). 2<sup>nd</sup> Poster award.
7. Piltz B, Brocke HJ, Adam B, Lavik G, **Nugues MM** (2011) Nitrogen fixation by cyanobacterial mats on a Caribbean reef. *1<sup>st</sup> International Symposium on Sponge Microbiology*, Würzburg, Germany (March 21-22).
8. Beilfuss S, **Nugues MM** (2010) Feeding impact of herbivorous fishes on the brown alga *Lobophora variegata*: a species-specific approach along a depth gradient. *Euro ISRS Symposium*, Wageningen, The Netherlands (December 13-17).

#### **Workshops and invited scholarly talks**

1. **Nugues MM** (2018) Changement climatique: est-il trop tard pour les coraux? *Cycle de conférences Grand Public "Urgence Climatique"*, Alternatiba66, Perpignan, France (May 17).
2. **Nugues MM**, Bonnard I (2018) Les algues corallines, un nouveau modèle pour l'étude de la structuration et du fonctionnement des récifs coralliens. *Journées de Restitution 2018 ExoMod + X-Life*, CNRS Campus Gérard-Mégie, Paris, France (February 21-22).
3. **Nugues MM** (2017) Exploring coral-algal interactions at the microscale. *Tara Pacific - University of the Ryukyus co-organised workshop "Tara Pacific in Okinawa"*, University of Ryukyus, Okinawa, Japan (April 17).
4. **Nugues MM**, Bonnard I (2017) Les algues corallines, un nouveau modèle pour l'étude de la structuration et du fonctionnement des récifs coralliens. *Journées de Restitution 2017 du PEPS ExoMod*, CNRS Campus Gérard-Mégie, Paris, France (February 27-28).
5. **Nugues MM** (2016) Changement climatique: est-il trop tard pour les coraux? *Conférence Grand Public des Amis du Laboratoire Arago*, Observatoire océanologique, Banyuls/mer, France (December 14).
6. **Nugues MM** (2016) Interactions coraux - algues dans l'écosystème corallien: processus, mécanismes, valorisation. *Invited Seminar UMR241 EIO*, Papeete, Tahiti (April 22).

7. **Nugues MM** (2012) Some insights into the ecology of coral recruitment. *International Consensus Statement Workshop on Coral Physiology and Reproduction*, Paris, France (December 13-15).
8. **Nugues MM** (2012) Récifs coralliens en crise: le rôle des algues benthiques. *Journée Scientifique de la Section des Sciences de la Vie et de la Terre*, Ecole Pratique des Hautes Etudes, Paris, France (December 4).
9. **Nugues MM** (2011) The role of benthic algae in the coral reef crisis. *Symposium Branching out in coral reef ecology*, Amsterdam, The Netherlands (December 7).
10. **Nugues MM** (2009) Life and death of coral reefs: the role of benthic algae. *3<sup>rd</sup> CORE Mini-Symposium on Ecological and Biogeochemical Coral Reef Research*, München, Germany (May 4).
11. **Nugues MM**, Wuchter C, van Duyl FC, Nieuwland G, Suharsono, Bak RPM (2009) Coral condition, coral disease and algal/coral overgrowth in the Berau coral reef system. *East Kalimantan Coastal Zone Research Programme Workshop*, Utrecht, The Netherlands (March 18).
12. **Nugues MM** (2008) Processes of decline and recovery on coral reefs. *1st Sino-German Workshop Land Sea Interactions along Hainan Coastal Marine Systems*, Wenchang, Hainan, China (July 31).
13. **Nugues MM** (2008) Life and death of coral reefs: the role of macroalgae. *Invited talk, Leibniz Center for Tropical Marine Ecology*, Bremen, Germany (January 15).
14. **Nugues MM** (2005) Macroalgae: causes or consequences of coral reef decline? *Department of Biology and Marine Biology Seminar Series*, University of North Carolina Wilmington, USA (December 2).
15. **Nugues MM**, Bak RPM (2004) Macroalgae on coral reefs: are they a major cause of coral reef decline? *Colloquium, Royal NIOZ*, Texel, the Netherlands (April 29).
16. **Nugues MM**, Bak RPM (2004) Climate and human links to coral disease. *Institute for Biodiversity and Ecosystem Dynamics Scientific Day*, Amsterdam, The Netherlands (March 17).

#### **Theses and reports**

- Bak R, Hoetjes P, Johnson AE, de Leon R, de Meyer K, Grimsditch G, Harrison PL, Meesters E, Nagelkerken I, Nieuwland G, **Nugues M**, Sandin S, Scheffers SR, Sommer B, Steneck B, AGRRA, CARICOMP & Reef Check 2014, 'Country reports: Bonaire', in J Jackson, M Donovan, K Cramer & V Lam (eds), Status and trends of Caribbean Coral Reefs: 1970-2012, Global Coral Reef Monitoring Network, Washington, USA, pp. 184-187.
- Nugues MM**, Bak RPM (2004) Corals: victims of algal overgrowth, but can they fight back? *Annual Report 2004 Royal NIOZ*, pp. 71-72.
- Roberts CM, Barker NLH, Clarke AJ, Gell FRG, Hawkins JP, **Nugues MM**, Schelten CK (2003) Impact and amelioration of sediment pollution on coral reefs of St. Lucia, West Indies. DFID NRSP Project R7668. *Report University of York*, UK.
- Schelten CK, Roberts CM, Hawkins JP, **Nugues MM** (2003) The effects of sedimentation on coral larval settlement. DFID NRSP Project R7668. *Report University of York*, UK.
- Schelten CK, Roberts CM, Hawkins JP, **Nugues MM** (2003) Impacts of sedimentation on juvenile coral settlement, mortality and growth. DFID NRSP Project R7668. *Report University of York*, UK.
- Schelten CK, Roberts CM, **Nugues MM**, Hawkins JP (2002) The interacting effects of sedimentation, fishing and hurricanes on coral reefs: a long-term study in St. Lucia, West Indies. DFID NRSP Project R7668. *Report University of York*, UK.
- Schelten CK, Roberts CM, Wabnitz CCC, **Nugues MM**, Hawkins JP (2002) The effects of human-induced sedimentation on juvenile coral assemblages. DFID NRSP Project R7668. *Report University of York*, UK.
- Nugues MM** (2000) Effects of multiple stresses on coral reef communities. *PhD thesis*, University of York, Environment Department, 248 pages.

**Nugues MM**, Schelten CK, Roberts CM (1999) Don't bury our beloved coral reefs. *Your SMMA Connection* 2:5.

**Nugues MM** (1998) The impact of a white-band disease epizootic on coral communities in St. Lucia: what and how much has been lost? *Report University of York*, UK.

Roberts CM, **Nugues MM**, Hawkins JP (1997) Report on the 1997 survey of coral reefs of the Soufrière Marine Management Area and Anse La Raye, St. Lucia. *Report University of York*, UK.

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**Nugues MM** (1995) Ecological effects of Pacific oyster intertidal cultivation on infaunal communities. *MSc thesis*, University of Stirling, Institute of Aquaculture, 50 pages