

## *Curriculum Vitae*

### **Personal Information**

Full name: Márcio André Guerreiro Coelho  
Nationality: Portuguese  
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### **Education**

21/08/2011–01/02/2018 Ph.D. in Coral Reef Ecology, Graduate program in Evolution, Ecology and Behavior, State University of New York at Buffalo (USA).  
12/09/2007–08/02/2010 M.Sc. in Marine Biology, Faculty of Marine and Environmental Sciences, University of Algarve (Portugal) & University of the Mediterranean Aix-Marseille/Oceanographic Center of Marseille (France).  
15/09/2004–27/07/2007 B.Sc. in Marine Biology, Faculty of Marine and Environmental Sciences, University of Algarve (Portugal).

### **Professional Experience**

01/01/2019–Present Postdoctoral Researcher, University of Algarve/Centre for Marine Sciences (CCMAR) (Portugal).  
Coordinating researcher in a national project: HABMAR (funded by MAR2020)  
01/03/2018–31/09/2018 Postdoctoral Researcher, Centre for Marine Sciences (CCMAR) (Portugal).  
Coordinating/participant researcher in two national/international projects: INFORBIOMARES (funded by POSEUR), and MARINEFORESTS (funded by Pew Foundation, USA) [www.marineforests.com](http://www.marineforests.com).  
20/08/2015–10/01/2018 Teaching Assistant, Geology Department, State University of New York at Buffalo (USA).  
Ecological Methods (Falls of 2015, 2016 & 2017).  
Ecology (Falls 2015, 2016 & 2017).  
Climate Change (Spring of 2017).  
21/08/2011–01/02/2018 Graduate Research Fellow, State University of New York at Buffalo (USA).  
Designed and conducted research on the reproductive and larval biology of Caribbean octocorals.  
Evaluated the important effects of coral larval swimming behavior on population connectivity using a stochastic biophysical model of dispersal.  
01/02/2010–15/05/2011 Research Technician, Mediterranean Institute for Advanced Studies (IMEDEA) (Spain) & CCMAR (Portugal).  
Co-designed and conducted experiments testing the thermal limits of Atlantic and Mediterranean seaweeds and seagrasses on the European project MARINERA.  
01/09/2007–29/11/2007 Trainee, CCMAR (Portugal).  
Conducted experiments with teleost fish using Immuno-histochemistry techniques.

## Publications

Citations: 14; H-index: 3

### Peer-review journals

Engelen AH, Mota C, Serrão EA, **Coelho MAG**, Marbà N, Krause-Jensen D, Pearson GA (accepted in PlosONE) Differentiation in fitness-related traits in response to elevated temperatures between leading and trailing edge populations of marine macrophytes.

Aurelle D, Pivotto DI, Malfant M, Topçu NE, Masmoudi MB, Chaoui L, Kara MH, **Coelho MAG**, Castilho R, Haguenaer A (2017) Fuzzy species limits in Mediterranean gorgonians (Cnidaria, Octocorallia): inferences on speciation processes. *Zoologica Scripta* 46:767–778.

**Coelho MAG**, Lasker HR (2016) Larval behavior and settlement dynamics of a ubiquitous Caribbean octocoral and its implications for dispersal. *Marine Ecology Progress Series* 561:109–121.

**Coelho MAG**, Lasker HR (2014) Reproductive biology of the Caribbean brooding octocoral *Antillogorgia hystrix*. *Invertebrate Biology* 133:299-313.

### Book Chapters

**Coelho MAG**, Lasker HR (2016) Larval dispersal and population connectivity in anthozoans. In: Goffredo S, Dubinsky Z (eds) *The Cnidaria, Past, Present and Future*. Springer International Publishing, Cham, pp 291-315.

### Theses

**Coelho MAG** (2018) Life history traits of Caribbean octocorals of the genus *Antillogorgia* and their implications for larval dispersal. PhD thesis. State University of New York at Buffalo, USA. ProQuest Dissertations Publishing (ProQuest # 10743029).

**Coelho MAG** (2009) Phylogeography and phylogeny of European gorgoniids (Gorgoniidae): genera *Eunicella* and *Leptogorgia*. MSc thesis. University of Algarve, Portugal. Sapientia repository (<http://hdl.handle.net/10400.1/248>).

### Manuscripts in Preparation

**Coelho MAG**, Paris CB, Lasker HR (*a draft exists*) Coral larval behavior influences dispersal and population connectivity.

**Coelho MAG**, Engelen AH, Serrão EA (*in preparation*) Gorgonian strandings in S Portugal following winter storms Emma and Felix.

## Fellowships & Awards

19/03/2019 Seal of Excellence by European Commission for project proposal 845601 (INFORCORE) “Restoration of Coral Populations: Laying the Foundation for Ecologically-Informed Transplantation Strategies in Gorgonians” submitted under H2020-MSCA-IF-2018.

01/11/2014–31/10/2015 Mark Diamond Research Fund (FA-14-04) by Graduate Student Association, State University of New York at Buffalo (USA); \$2500.

01/07/2011–01/07/2015 Doctoral Fellowship by FCT, the Portuguese Science Foundation; 120,420.85 €.

09/03/2009–09/06/2009 Lifelong Learning Programme ERASMUS by European Commission; 2000 €.

## Select Symposia and Conferences Participation

19/06/2016–24/06/2016 **M Coelho**, H Lasker. Larval biology of the Caribbean octocoral *Antillogorgia americana* and its implications for dispersal. 13<sup>th</sup> International Coral Reef Symposium, Honolulu, Hawai’I, USA (oral communication).

04/03/2015–07/03/2015 **M Coelho**, H Lasker. Larval biology of the Caribbean octocoral *Antillogorgia americana* and its implications for dispersal. 44<sup>th</sup> Benthic Ecology Meeting, Québec City, Québec, Canada (oral communication).

## Curriculum Vitae

- 12/05/2014–16/05/2014 A Engelen, J Costa, **M Coelho**, JM Neiva, G Pearson, N Marbà, C Duarte, E Serrão. Temperature resilience and genetic diversity of intertidal canopy forming seaweeds of the genus *Cystoseira* in Portugal. ECSA54 Conference, Sesimbra, Portugal (poster).
- 20/03/2013–23/03/2013 **M Coelho**, H Lasker. Reproductive biology of the Caribbean octocoral *Antillogorgia hystrix*: first report of internal brooding in the genus. 42<sup>nd</sup> Benthic Ecology Meeting, Savannah, GA, USA (poster).
- 01/11/2013–02/11/2013 A Engelen, C Mota, **M Coelho**, C Duarte, N Marbà, E Serrão, G Pearson. Climate change effects on ecosystem structuring marine macrophytes at their leading polar and rear edge distribution zones. 5<sup>th</sup> Conference on Portuguese Polar Science, Faro, Portugal (poster).
- 04/10/2010–07/10/2010 A Engelen, O Diekmann, **M Coelho**, J Costa, G Pearson, N Marbà, E Serrão, C Duarte. Climate change effects on canopy-forming ecosystem structuring species at leading and rear edges versus central distribution zones. Aquashift Meeting, Kiel, Germany (oral communication).

### Workshops

- 03/11/2011–07/11/2011 Messing CG, Lasker HR, Sanchez JA, Reed J, Brinkhuis V, Espitiah P, Johnston MW, Montalvo LFD, **Coelho M**, Smilansky V (2012). South Florida Octocorals: a Guide to Identification. [http://cnso.nova.edu/ncri/sofla\\_octocoral\\_guide/index.html](http://cnso.nova.edu/ncri/sofla_octocoral_guide/index.html)

### Research Expeditions

#### Led by experienced researcher

- 02/11/2014–03/11/2014 Characterization of the spawning behavior, settlement dynamics and larval swimming behavior of the gorgonian coral *Antillogorgia americana*. Keys Marine Laboratory, Florida Keys (USA).
- 03/08/2012–06/08/2012 Surveying and collection of samples of *Antillogorgia* spp. at several sites in San Salvador. Gerace Research Centre, San Salvador (The Bahamas).

#### Member of research team

- 30/04/2017–06/05/2017 Deployment and collection of artificial substrata to study coral recruitment. Virgin Islands Environmental Research Station, St. John (USA Virgin Islands).
- 25/08/2013–05/09/2013 Monitoring of spawning and larval rearing of the scleractinian corals *Orbicella faveolata* and *Acropora palmata*. Keys Marine Laboratory, Florida Keys (USA).
- 12/06/2012–21/06/2012 Coral recruitment and adult density censuses of *Antillogorgia* spp. in The Bahamas. University of Miami Research Vessel F. G. Walton Smith, Little Bahama Bank (The Bahamas).
- 09/01/2012–19/01/2012 Coral recruitment and adult density censuses of *Antillogorgia* spp. in The Bahamas.. University of Miami Research Vessel F. G. Walton Smith, Little Bahama Bank (The Bahamas).

### Student Supervision

- 01/03/2018–Present Thesis advisor and supervisor of two M.Sc. students from the University of Algarve, Portugal.
- 20/04/2018–31/07/2018 Internship supervisor of one M.Sc. student from the University of Algarve, Portugal.
- 01/02/2010–15/05/2011 Internship supervisor of several B.Sc. students from the University of Algarve, Portugal.

## **Communication and Outreach Events**

### Media appearance

- 28/03/2018 Coelho, Márcio & Serrão, Ester. Radio interview with Edgar Canelas. “Os Dias do Futuro: a Investigação e a Inovação” [EN: Days of the Future: the Research and the Innovation]. Antena 1 (RTP). <https://www.rtp.pt/play/p383/e339449/os-dias-do-futuro>.
- 27/03/2018 Coelho, Márcio. Interview with Hugo Rodrigues. “Investigadores do CCMAR salvam corais arrancados pela tempestade e vão replantá-los” [EN: CCMAR researchers save corals detached by storm and are going to replant them]. Sul Informação. <http://www.sulinformacao.pt/2018/03/investigadores-do-ccmar-savam-corais-arrancados-pela-tempestade-e-vao-replanta-los/>.

### Public engagement

- 22/05/2018 Participation in the program “O Mar de Alto a Baixo” [EN: The Sea from Surface to Bottom] for the 20<sup>th</sup> Anniversary of the 1998 World Fair, Lisbon (Portugal).

## **Other relevant competencies**

### Certifications

Scuba diving – PADI Open Water Diver; CMAS Nitrox; (> 120 logged dives).

Formerly certified as State University of New York at Buffalo/AAUS Scientific Diver, Oxygen First Aid for Scuba Diving, and Heartsaver First Aid and Heartsaver CPR AED (American Heart Association).

### Languages

Portuguese (native).

English (C2 proficient user)\*.

Spanish (A2 basic user)\*.

\*assessed under the Common European Framework of Reference for Languages.