

Ricardo Beldade, PhD, HDR

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Soy un ecologista molecular de peces de arrecife con interés en la dispersión, la hibridación, la conectividad de la población y la variación genotípica y fenotípica. Hago inferencias de varias disciplinas, genómica de poblaciones, fisiología, comportamiento para responder a preguntas directamente relacionadas con la conservación de la biodiversidad, la gestión de las pesquerías y el cambio climático global.

Resumen del programa de estudios: Profesor asistente de la Pontificia Universidad Católica de Chile; 34 publicaciones en revistas de revisión internacional desde 2005, incluyendo las revistas más importantes en mi campo de especialización Nature Comms, Proc Royal Soc B, Molecular Ecology entre otras; 1 capítulo de libro y 1 publicación electrónica; 18 presentaciones orales en congresos internacionales y 3 charlas invitadas; la divulgación desde 2002 incluye la interacción con estudiantes de escuelas secundarias y primarias; con representantes de organizaciones no gubernamentales; con políticos, el uso de instrumentos de divulgación para un público más amplio, como una base de datos en línea sobre peces y artículos en revistas generalistas; las subvenciones y los premios incluyen más de 1,7 millones de dólares en becas, subsidios de investigación y subvenciones para viajes de particulares (e. por ejemplo, la Fundación HP, la Fundación Totale) y de fuentes públicas (por ejemplo NSF, ANR, FCT) en los Estados Unidos, Francia, España y Portugal desde 1999; enseñanza en todos los niveles académicos en más de 4 países diferentes; supervisión de estudiantes en todos los niveles: 11 BSc, 11 Ms y 1 PhD y muchas nacionalidades; otras actividades y habilidades profesionales incluyen la organización de simposios en congresos internacionales, revisor de 15 revistas (5-10 trabajos revisados por año), revisor de tesis de doctorado y becas para JCU (AUS); domino cuatro idiomas y soy un buceador apasionado.

CURRENT POSITION

2019- **Assistant Professor** at Pontificia Universidad Católica de Chile in the Dpt. Ecology.

EDUCATION

- 2017 **HDR** Habilitation à Diriger des Recherches in Biological Sciences by EPHE Ecole Doctorale de L'École Pratique des Hautes Études; section Biologie des populations et Ecologie.
- 2003-06 **PhD in Ocean Sciences, Marine Ecology University of Algarve.** Patterns of stability and recruitment of a cryptobenthic fish assemblage in the Arrábida Marine Park. Prof. Emanuel Gonçalves (ISPA) and Prof. Karim Erzini (University of Algarve).
- 1994-98 **BSc (Hons) Marine Biology, University of Lisbon, Portugal** Final degree research project: "Spatial and seasonal variation of the intertidal algae and macro-invertebrates on the central Portuguese rocky coast"

ACADEMIC AND PROFESSIONAL APPOINTMENTS

Research assistant 1999-2002 on environmental assessment and habitat restoration projects; PhD 2003-2006 on coastal rocky reef fish; Post-doc in California on grouper population structure and fisheries management 2007-2010, collaborations with American and French research in the French Polynesia on dispersal dynamics of coral reef fishes 2007-present

- 2015-18 **CNRS/EPHE Post-doctoral researcher, Laboratoire d'Excellence "CORAIL", USR3278 CRIOBE CNRS.** Parental phenotypes and Environmental determinants of offspring dispersal phenotypes in a coral reef fish.
- 2011-14 **Post-doctoral researcher, Centro de Oceanografia, University of Lisbon, Portugal.** Connectivity of resident, temporary and occasional fish species among four estuaries along the Portuguese Coast. Prof. Henrique Cabral (University of Lisbon, Portugal).
- 2011 Collaborating at the Post-Doctoral level with Dr. Suzanne Mills and Prof. Giacomo Bernardi **on board the Marion Dufresne in the Iles Eparses: TAAF, INEE.** Recruitment dynamics, genetic connectivity, and environmental stress among clownfish populations.
- 2007-11 Collaboration as a Post-doc on **Moorea Coral Reef Long-Term Ecological Research (MCR LTER) with USR 3278 at CRIOBE and GUMP** Self-recruitment in the orange-fin anemonefish *Amphiprion chrysopterus*; speciation and recruitment dynamics in the three spot dascyllus *Dascyllus trimaculatus*.
- 2007-10 **Post-doctoral researcher, PANGAS project, University of California.** Small-Scale Fisheries in the Upper Gulf of California, Mexico: Linking Human and Biophysical Processes – Population genetics component. Prof. Giacomo Bernardi (UCSC, California, USA) and Prof. Pete Raimondi (UCSC, California, USA).
- 2007-09 Collaboration as a Post-doc with Prof. Serge Planes in Parentage assessment **at USR 3278 in Perpignan, France.** Paternity studies for the orange-fin anemonefish, *Amphiprion chrysopterus*. Microsatellite optimization; pcr multiplexing; sequencing; data analysis.
- 2006 Collaboration as a Post-doc with Prof. Giacomo Bernardi in **Molecular genetics at**

- UCSC, Santa Cruz, USA.** Recruitment dynamics of the three-spot damselfish, *Dascyllus trimaculatus*, using restriction enzymes (RFLPs).
- 2003-06 **PhD in Ocean Sciences, Marine Ecology University of Algarve.** Patterns of stability and recruitment of a cryptobenthic fish assemblage in the Arrábida Marine Park. Prof. Emanuel Gonçalves (ISPA) and Prof. Karim Erzini (University of Algarve).
- 2002 **Research assistant position, funded by ISPA.** Monitoring of rocky shore fish communities using non-destructive methods.
- 2000-01 **Research assistant position, co-funded by ICN and ISPA** Monitoring the ichthyofaunal colonization of a saltmarsh restoration area in the Castro Marim Salt Marshes Natural Reserve.
- 1999-00 **Research assistant position, co-funded by ICN and ISPA.** Environmental assessment of the impact of dredging on the ichthyofauna in the Ria Formosa Algarve, Portugal.

GRANTS AND AWARDS

Over 1,7M US dollars in fellowships, research and travel grants from private (e.g. HP Foundation) and public sources (e.g. NSF, ANR) in the United States, France, Spain and Portugal since 1999. As a PI I have secured 873,5 KEuros until the present.

- 2019 **AMI Iles Eparses (INEE - FR) / Fondation du Monaco.** “Hope to Cope”. Coping with climate change: from individual and population responses to mitigation through marine protected areas. (€40,000) Role: Co-PI
- 2015-18 **Agence Nationale de Recherche (FR) – programme Blanc, Laboratoire d’excellence ‘Corail’: “Stay or Go”.** The role of parental traits and the environment on dispersal strategies. Co-PI (€800,000).
- 2014-15 **Laboratoire d’excellence ‘Corail’ (FR)** research grant DYNACANTH “Dynamique de la prolifération d’ *Acanthaster planci*: comprendre pour mieux gerer” (\$20,000).
- 2014 **Agence Nationale de Recherche (FR) Jeune Chercheur – projet LIVE AND LET DIE** travel grant for “Bioinformatics: RADtag data analysis” at the University of California, Santa Cruz – Department of Ecology and Evolutionary Biology in April (\$5,000).
- 2013 **AMI Iles Eparses (INEE - FR)** research trip to study the connectivity of reef fish in the Mozambique Channel (€30,000) Role: Co-PI (1 month: research trip)
- 2013 **Spanish Freshwater fishbase. (SP)** Database (MSaccess and SQL) coding, design and management (<http://www.cartapiscicola.org/>). (\$38,000).
- 2012-13 **Laboratoire d’excellence ‘Corail’ – WHERE DO WE GO NOW? (FR)** Co-PI appointment to work on maternal effects and environmental change in a coral reef fish (\$30,000).
- 2012 **National Science Foundation Travel grant (USA)** Field work in Moorea and Tahiti on survival and fitness of *Amphiprion chrysopterus* recruits. (\$10,000).
- 2011-12 **Portuguese Foundation for Science & Technology Post-doctoral fellowship (PT).** (3 years post-doctoral stipend €57,000).
- 2011 **AMI Iles Eparses (INEE - FR)** research trip to study the Recruitment dynamics, genetic connectivity, and environmental stress among clownfish populations. (€13,500) Role: Co-PI (1 month: research trip)
- 2010 **National Science Foundation Travel grant (USA)** Field work in Moorea and Tahiti on recruitment dynamics of *Amphiprion chrysopterus*. (stipend \$10,000).
- 2009 **Helwett Packard foundation Post-doctoral fellowship (USA).** PANGAS project - Small-Scale Fisheries in the Upper Gulf of California, Mexico: Linking Human and Biophysical Processes. (\$36,000).
- 2008-09 **National Science Foundation Travel grant (USA).** Data analysis at the University of

- 2007 Perpignan France (\$4,000) related to dispersal of *Amphiprion chrysopterus* larvae.
National Science Foundation Travel grant (USA). Field work in Moorea on recruitment dynamics of *Amphiprion chrysopterus*. (\$4,000).
- 2007-08 **Portuguese Foundation for Science & Technology Post-doctoral fellowship (PT)**. (ref: SFRH/BPD/26901/2006) (€84,000).
- 2007 **Portuguese Freshwater fishbase (PT)**. Database (MSaccess and SQL) coding, design and management (<http://www.cartapiscicola.org/>). (\$50,000).
- 2003-06 **Portuguese Foundation for Science & Technology PhD fellowship (PT)**. (ref: SFRH/BD/1013/2000) (€72,000).
- 1999-02 **ICN and ISPA co-funded a Research grant**. Environmental assessment of the impact of dredging on the ichthyofauna in the Ria Formosa Algarve, Portugal and Restoration and Environmental assessment in Portugal. (€120,000).
- 1998-99 **Praxis XXI grant for a research assistant (PT)**. Patterns, processes and variation in macrobenthic intertidal communities of rocky substrate in the Portuguese Coast. (BTI/12113/97). (€30,000).

COURSES TAUGHT

Teaching experience encompasses all levels: BSc, MSc and PhD; in American, French, Portuguese and international institutions. Of particular relevance is my participation in the PGCD PhD program where I organized and lectured in Cape Verde. In this course I included theoretical and practical assignments including a field trip to explain evolution concepts and in particular the use of molecular tools for conservation and management.

- 2020
- 2014-17 **PhD program for Science and Development held in Cape Verde (www.igc.pt/pgcd)**. Organizer and Lecturer in: Evolution, Phylogeny, Population Genetics, Genomics (60h).
- 2013 **Masters course in “Biodiversity and Evolution”, University of the French Polynesia/EPHE**. Lecturer: Dispersal in the oceans: from the formation of species to the persistence of populations (8h).
- 2012 **Masters course in Marine Ecology, FCUL Lisbon**. Lecture: Evolution and Population genetics (8h).
- 2011 **Master 2 in Marine Ecology, EPHE and University of Perpignan, France**. Module “Structure et Fonctionnement de l'écosystème coralline” Lectures on Phylogeography and Population Genetics with practical examples (8h).
- 2010 **Master 2 in Marine Ecology, EPHE and University of Perpignan, France**. Module “Structure et Fonctionnement de l'écosystème coralline” Lectures on Phylogeography: Vicariance and Dispersal of the Creole Wrasse (8h).
- 2009 **University of California at Santa Cruz, USA**. 3rd year Undergraduate Biology (BIOE 295) Prof. Bernardi. *Assignment tests a coalescent approach: Structure* (2h).
- 2007 **University of California at Santa Cruz, USA**. 3rd year Undergraduate Biology (BIOE 295) Prof. Bernardi. *Assignment tests a coalescent approach: Structure* (2h).
- 2008 **University of California at Santa Cruz, USA**. 3rd year Undergraduate Ichthyology (BIOE 127/127L) Prof. Bernardi. *Applications of otoliths to study of recruitment dynamics* (2h).
- 2007 **University of California at Santa Cruz, USA**. 3rd year Undergraduate Ichthyology (BIOE 127/127L) Prof. Bernardi. *Applications of otoliths to study of recruitment*

- dynamics* (2h).
- 2004 **Instituto Superior de Psicologia Aplicada, Eco-ethology Research Unit.** Sub-tidal ecology: underwater visual census and fish identification Dr. Emanuel Goncalves (4h).
- 2003 **Instituto Superior de Psicologia Aplicada, Eco-ethology Research Unit.** Sub-tidal ecology: underwater visual census and fish identification Dr. Emanuel Goncalves (4h).
- 1999 **University of Lisbon, Faculdade de Ciencias.** Undergraduate Intertidal Ecology. Field course identification of coastal macro-algae and macro-invertebrate (3h).

STUDENT SUPERVISION

Supervision experience encompasses all levels: 11 BSc, 11 Ms and 1 PhD; covers many nationalities (American, Irish, English, French, Brazilian, Portuguese)

- 2018 **Co-Supervision of MSc (Hons) student:** SAMMUEL MANNING, University of Amsterdam, Netherlands. Heritability of behavioral traits in the orange-fin anemonefish.
- 2018 **Co-Supervision of MSc (Hons) student:** CHARLOTTE JAULIAC, UPVD Master 1. The effect of habitat quality on the reproductive investment and offspring quality in the orange-fin
- 2018 **Co-Supervision of MSc (Hons) student:** CLARA DIAZ, UPMC VI, Master 2. The effect of habitat quality on the reproductive investment and offspring quality in the orange-fin anemonefish. Moorea, French Polynesia.
- 2017-20 **Supervision of PhD** EPHE: DAPHNE CORTESE. The effect of habitat quality and parental phenotype on offspring's dispersal traits.
- 2017 **Co-Supervision of MSc (Hons) student:** ANTHONY SIMEONI, EBE - UPMC. Population dynamics models of a coral reef fish
- 2016-17 **Supervision of MSc (Master 2)** EPHE: DAPHNE CORTESE. Ontogenetic shifts of swimming speed in *A. chrysopterus* larvae.
- 2015-16 **Co-Supervision of Post-doctoral researcher (CNRS):** GERRIT NANNINGA Dispersal, parental traits, offspring traits and environment.
- 2015-16 **Supervision of BSc (Hons) students:** RORY MCDOWEL, GEORGIA MCDONNARD, and HOLY MOORE, exchange students between the University of Ulster and the École Pratique des Hautes Etudes. Dispersal, parental traits, offspring traits and environment.
- 2015-16 **Supervision of BSc (Hons) student:** LAURRIEN DERRIEN from EPHE. Sampling and rearing wild caught anemonefish (*Amphiprion chrysopterus*) eggs and larvae.
- 2015-2016 **Supervision of MSc (Master 2)** EPHE: AGATHE BLANDIN. *Maternal stress in the orangefin clownfish, Amphiprion chrysopterus*
- 2015-2016 **Supervision of MSc (Master 2)** Paris VI: THIBAUT TAMIN. *Adult personalities of the orangefin clownfish, Amphiprion chrysopterus*
- 2014-15 **Supervision of MSc (Master 1)** Paris VI student: AGATHE BLANDIN from EPHE. Behavioral syndromes and dispersal in coral reef fishes.
- 2013-14 **Supervision of BSc (Hons) students:** LAURA HENRY and DAVID LAVERTY, exchange students between the University of Ulster and the University of the French Polynesia. Boat noise and parental effects.
- 2013-14 **Co-Supervision of MSc (Hons) students:** LUIZA PAOELLIO, exchange students between the University Rio Grande do Sul, Brasil. Thirty years of stability/change in Mataiva a remote atoll in the French Polynesia.
- 2012-13 **Supervision of BSc (Hons) students:** DANIEL HOLLEY and STEPHEN MURRAY,

- exchange students between the University of Ulster and the University of the French Polynesia. Environmental change and adjustment through parental effects.
- 2010-11 **Supervision of BSc (Hons) student:** GARY LONGO, UCSC, USA. Microsatellite loci testing and analysis for estimating connectivity: case study of the black murex (*Hexaplex nigritus*).
- 2008-09 **Supervision of BSc (Hons) student:** WESLEY LARSON, UCSC, USA. Mitochondrial and nuclear markers in Phylogeography: the case of the barred pargo (*Hoplopagrus guentherii*). DNA extraction, amplification, cleaning and sequencing. Data analysis Maximum Parsimony (MP), Neighbour-Joining (NJ), and Bayesian.
- 2008-09 **Supervision of BSc (Hons) student:** JOSE LOPEZ, UCSC, USA. Estimating population connectivity through assignment tests; the gulf coney (*Hyporthodus acanthistius*) in the northern sea of Cortez. Microsatellite testing, optimizing and scoring. Assignment tests.
- 2007-08 **Co-Supervision of MSc student:** CELINE REISSER, UCSC, USA. Multiple paternity, mating strategies and competition in sympatric congeneric fishes, *Embiotoca jacksoni* and *E. lateralis*.
- 2006-07 **Co-Supervision of MSc students:** TANIA PEDRO, University of Lisbon, Portugal. Methods in estimating the pelagic larval duration of temperate reef fishes; otolith increments and settlement marks.

PROFESSIONAL ACTIVITIES

- 2017 Organizer of the **Symposium on Connectivity and Dispersal in the Indo-Pacific** in the Indo-Pacific Fish Conference, Tahiti 2nd-6th October (<https://ipfc10.criobe.pf>).
- 2013 Organizer of the **Symposium on Population Ecology** in the European Society for Evolutionary Biology **ESEB** congress, Lisbon 19th-24th August (www.ESEB2013.com/).

Reviewer for: Marine Ecology progress Series, Frontiers in Marine Science, Ecology Letters, OIKOS, Biology Letters, Molecular Ecology, Molecular Phylogenetics and Evolution, Proceedings of the Royal Society of London B, Marine Ecology, PLoS One, Journal of Fish Biology, Conservation Genetics, Journal of Experimental Marine Biology and Ecology, Marine Biology, Journal of Sea Research, Marine Pollution Bulletin (at an average of 5 papers per year)

COURSES ATTENDED

- 2010 **Workshop on Molecular Evolution and Genomics.** Molecular Biology Laboratory, Woods Hole (USA). Český Krumlov, Czech Republic. January 2010.
- 2009 Molecular Laboratory techniques. **RNA extraction and sequencing.** Santa Cruz, USA, June 2009.
- 2007 **New technologies in the study of otoliths and their applications in marine fisheries.** CIIMAR. Porto, Portugal, January 2007.
- 2004 **Use of molecular markers for the study of Marine Biodiversity.** IMAR – Institute for Marine Research, Portugal. Sergio Stefani (Postdoctoral researcher at DOP – University of the Azores) and Giacomo Bernardi (Associate Professor of Molecular Ecology and Evolutionary Biology at the University of California, Santa Cruz). Faial, September 2004.
- 2004 **Population genetics data analysis.** European Institute for Genetics and Bio-informatics. Bruce Weir (director of Bioinformatics Research Center, North Carolina State University) and Kent Holsinger (Department of Ecology and Evolutionary Biology, University of

- Connecticut). Faro, July 2004.
- 2004 **Analyzing Biological and environmental field data** by Dr. Alain Zur. Organized by FCMA/University of the Algarve. 9-13 February Faro, Portugal.
- 2003 **Experimental design** by Prof. A.J. Underwood and Dr. M.G. Chapman. Organized by FCMA/University of the Algarve. 16-27 June Faro, Portugal.

OUTREACH

- 2017 @r_beldade on tweeter (over 20000 re-tweets!)
- 2015 “Alternative dispersal strategies in coral reef fishes to cope with climate change” (Changements des strategies de dispersion chez les poissons des recifes coralliens pour faire face a les changements climatiques) Fête de la Science 7-10 October at CRIOBE. High-school visits and Stay or Go project presentations.
- 2015 “Can coral reefs be saved by vinegar or lime juice?” (Les récifs coralliens sauvés par du vinaigre et du citron ?) Science et Avenir (September 2015)
<http://www.sciencesetavenir.fr/nature-environnement/20150925.OBS6560/les-recifs-coralliens-sauves-par-du-vinaigre-et-du-citron.html>
- 2015 “30 years of monitoring coral reefs in the French Polynesia: an example from the Mataiva Atoll” (30 ans de suivi des récifs coralliens en Polynésie française : exemple de changement à Mataiva) UPVD Magazine hors-série recherché (May 2015).
- 2015 “More Coral more fish?” criobe.pf PODCAST
http://criobe.pf/communication/2015_02_26_More_coral_more_fish.php
- 2014 “Dispersion chez les poissons des recifes coralliens: Phenotype et environment” Fête de la Science 9-11 October in Tahiti. Exhibition and public contact.
- 2014 “Debunking myths about marine reserves” Presentation in Cape Verde (Sal Island) to the Cape Verde minister of Science, Education and Technology, the dean of Cape Verde University and several NGO representatives among others.
- 2011 “Population connectivity of two Pomacentrids among the scattered islands” Presentation on board the Marion Dufresne during the 2011 expedition to the scattered islands.
- 2011 “La science met le cap sur les Iles Eparses.” Science et Avenir (July 2011) p8-14
- 2009 Launched the website that hosts the freshwater fish database for Portugal. This database was publicized in every freshwater fishing permit.
- 2006 “O Parque Marinho da Arrabida” A documentary in BOMBORDO program produced by Portuguese National Television channel RTP2.
- 2002 Portuguese Nature Conservancy (ICNF) at RNSCMVRS The importance of saltmarsh restoration areas for local fish communities. Public presentation for the local mayor and director of the local nature reserve among others.
- 2006 “O Parque Marinho da Arrabida” A documentary in BOMBORDO produced by Portuguese Television channel RTP2.

OTHER QUALIFICATIONS

Rescue SCUBA diver CMAS *** >2000 dives 1st aid, CPR certification (RAIF)
Scientific diving CAH – Certification d’Aptitude Hyperbare
Boat license; VHF radio operator class 1
Portuguese native speaker
English (fluent reading, writing and conversation skills)
Spanish (fluent reading, writing and conversation skills)
French (fluent reading, good writing and conversation skills)

ORAL PRESENTATIONS

18 Oral presentations at international meetings and invited talks; oral presentations given by R. Beldade are:

- 2019 **INVITED TALK Beldade, R.** Dispersal in the Sea. Pontificia Universidad Católica de Chile, Santiago, Chile. Jan 2019.
- 2018 **INVITED TALK Beldade, R.** Dispersal in the Sea. Smithsonian Tropical Research Institute, Panama. 3rd March 2018.
- 2017 **Beldade, R.,** Holbrook, S.J., Schmitt, R.J., Bernardi, G. & S.C. Mills. Parental phenotypes and larval quality. IPFC, Tahiti October 2017
- 2017 **Beldade, R.,** Holbrook, S.J., Schmitt, R.J., Planes, S. & G. Bernardi. Retention mechanisms, self-recruitment and spatial zoning of MPAs. FSBI Exeter, UK July 2017
- 2016 **Beldade, R.,** Holbrook, S.J., Schmitt, R.J., Planes, S. & G. Bernardi. Retention mechanisms and self-recruitment in a coral reef fish population. ICRS Hawaii Jun 2016
- 2014 **Beldade, R., Mills S.C.,** O'Donnell, J. and Bernardi, G. Dynamique de recrutement, connectivite genetique, stress environmental entre populations de poissons clones des iles Esparses. Coloque du programme inter-organismes Iles Eparses. Paris, France. 28-29 April
- 2013 **Beldade, R.,** Mills S.C. and Bernardi, G. Dispersal and replenishment in coral reef fish populations. Movement and Dispersal Meeting. Aberdeen, Scotland. 12-14 November
- 2013 **INVITED TALK Beldade, R.** Dispersal in coral reef fish. Societe Francaise d'ichtyologie, Perpignan, France. 14-15 May.
- 2012 **Beldade, R.** Holbrook, S. Schmitt R., Planes S., Malone D. and Bernardi G. Larger female fish contribute disproportionately more to self-replenishment. 12th International Coral Reef Symposium, Cairns, Australia. 9-13 July.
- 2012 **INVITED TALK Beldade, R.** Dispersal and replenishment in coral reef fish populations. Scipps University of California at San Diego at CRIOBE, French Polynesia. 18th May.
- 2010 **Beldade R.,** Holbrook S., Schmitt R. and Bernardi G. Why we shouldn't catch the biggest fish in the pond? LTER Meeting. Santa Barbara, California, USA.
- 2009 Leray, M., **Beldade, R.,** Holbrook, S.J., Schmitt, R.J., Planes, S. and Bernardi G. Modes of speciation on the three-spot damselfish, *Dascyllus trimaculatus*, species complex. 8th Indo-pacific fish conference and 2009 ASFB workshop and Conference. Fremantle, Western Australia.
- 2009 **Beldade, R.** Holbrook, S. Schmitt, R. and Bernardi G. Self-recruitment levels in a coral-reef fish: a biophysical approach. LTER Meeting. Santa Barbara, California, USA.
- 2008 **Beldade, R.** Holbrook, S. Schmitt, R. and Bernardi G. Kinship in The Orange-Fin Clownfish, *Amphiprion chrysopterus*, From Moorea, French Polynesia. 11th International Coral Reef Symposium. Fort Lauderdale, Miami.
- 2008 Leray, M. **Beldade, R.,** Planes, S., Holbrook, SJ, Schmitt, RS, Bernardi, G. Population structure of the three-spot damselfish, *Dascyllus trimaculatus* across its distribution range. 11th International Coral Reef Symposium. Fort Lauderdale, Miami.
- 2005 **Beldade, R.** Borges, R. and Gonçalves, E. Depth distribution of late stage larvae in a temperate rocky fish community. 29th Larval Fish Conference, Barcelona, Spain.
- 2005 Borges, R. **Beldade, R.** and Gonçalves, E. Vertical distribution of very nearshore fish larval assemblages in a temperate rocky coast. 29th Larval Fish Conference, Barcelona, Spain.
- 2005 Borges, R. Gonçalves, E. and **Beldade, R.** A comparative analysis of fish larval assemblages at different very nearshore habitats in a temperate rocky coast. 29th Larval Fish Conference, Barcelona, Spain.

POSTER PRESENTATIONS

9 Posters presentations at international meetings:

- 2017 Cortese, D., Scholz, Z., Norin T., Killen, S., Mills S.C. & **Beldade R.** Parental and environmental determinants of swim performance in larval anemonefish. Meeting of the Society for Experimental Biology at Gothenburg, Sweden 3 - 6 July 2017
- 2013 Mills, S.C., **Beldade, R.**, Bernardi, G., Bigot, L., Chabanet, P., Holles, S., Mourier, J., O'Donnell, J., Planes, S., Radford, A. & Simpson, S. Anthropogenic disturbances on the development and physiology of marine species 14th Congress of the European Society of Evolutionary Biology (ESEB), Lisbon, Portugal. 19-24th August.
- 2012 O'Donnell, J.L., **Beldade, R.**, Williams, H.E., Mills, S.C. and G. Bernardi. Connectivity of damselfish populations in the Mozambique Channel inferred from microsatellite analysis. First Joint Congress on Evolutionary Biology. Ottawa, Ontario, Canada. 6-10 July.
- 2011 Williams, H.E., O'Donnell, J.L., **Beldade, R.**, Mills, S.C. and G. Bernardi. Cross-amplification of 9 microsatellite loci for studies of population connectivity among populations of the Skunk Anemonefish in the Mozambique Channel. Workshop held at KAUST, Saudi Arabia in February 2011
- 2008 **Beldade, R.**, Raimondi, P., Cudney-Bueno, R. & G Bernardi. Genetic structure of the gulf coney (*Epinephelus acanthistius*) in the northern Sea of Cortez. 11th International Coral Reef Symposium. Fort Lauderdale, Miami.
- 2006 LTER annual meeting. Recruitment dynamics of the three-spot damselfish, *Dascyllus trimaculatus*, in Moorea, French Polynesia. **Beldade, R.** Holbrook, S. Schmitt, R. and Bernardi G.
- 2003 Padrões Comportamentais de larvas de peixes costeiros e sua relevância para estudos de ecologia e retenção larvar. Borges, R., **Beldade, R.** & Gonçalves, E. / Congresso Nacional de Etologia
- 2002 Habitat differences in the presence of late stage larvae in a rocky fish community: implications for conservation. **Beldade, R.**, Borges, R. & Gonçalves, E. / World Congress on Aquatic Protected Areas
- 1997 A actividade piscatória entre a Costa da Caparica e a Fonte da Telha. **Beldade, R.**, A. Filipe, M. Lopes, T. Nobre & M. Reis / ECSA Local Meeting - The Tagus estuary and adjoining coastlines.

PUBLICATIONS

34 publications in internationally reviewed journals since 2005 (Rang A); H-index=16; 1 book chapter; 1 book review and 1 electronic publication. <http://www.researcherid.com/rid/B-3724-2012>

Published

34. Mills, S.C., **Beldade, R.**, Henry, L., Laverty, D., Nedelec, S.L., Simpson, S.D., Radford, A.D. 2020 Hormonal and behavioural effects of motorboat noise on wild coral reef fish. *Environmental Pollution* 262:114250
33. Horwitz, R., Norin, T., Watson, S.A., Pistevo, J.C.A., **Beldade, R.**, Hacquart, S., Gattuso, J.P., Rodolfo-Metalpa, R., Vidal-Dupiol, J., Killen, S.S., Mills, S.C. 2020. Near-future ocean warming and acidification alter foraging behaviour, locomotion, and metabolic rate in a keystone marine mollusc. *Scientific Reports* 10:5461

32. Emms, M.A., Saenz-Agudelo, P., Giles, E.C., Gatins, R.A., Nanninga, G.B., Scott, A., Hobbs, J-P.A., Frish, A.J., Mills, S.C., **Beldade, R.**, Berumen, M.L. 2020. Comparative phylogeography of three host sea anemones in the Indo-Pacific. *Journal of Biogeography* 47:487–500. (IF = 4.24)
31. Norin, T., Mills, S.C. Crespel, A., Cortese, D., Killen, S.S. & **Beldade, R.** 2018 Anemone bleaching increases the metabolic demands of symbiont anemonefish. *Proc Royal Soc B* 285: 20180282. (IF = 4.87)
30. Mills, S.C., O'Donnell, J. Bernardi, G & **Beldade, R.** 2018 Natural endocrine profiles of the group-living skunk anemonefish *Amphiprion akallopisos* in relation to their size-based dominance hierarchy. *Journal of Fish Biology* 92(3): 773-789. (IF = 1.70)
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