

## PERSONAL INFORMATION

### ANTONIO CALÒ



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Skype: octopus2887

Sex Male | Date of birth 28/09/1987 | Nationality Italian

## SCIENTIFIC COMPETENCE AND RESEARCH INTERESTS

Marine Protected Areas (MPAs), MPA effects, fish population dispersal and connectivity, fish movement, design and monitoring of MPAs and MPA networks, reef fish ecology and biology, early life traits of fishes, fish habitat selection, human impact in MPAs, MPA pre-planning and planning process, Ecosystem Approach to Fishery, Small Scale Fishery, marine litter.

## WORK EXPERIENCE

From January 2016  
and currently ongoing

### Post-doc position University of Nice Sophia-Antipolis

In the framework of the project: "SaFENet" (Sustainable Fisheries in EU Mediterranean waters through network of MPAs), funded by the European Commission. The project aims to identify coherent network(s) of Marine Protected Areas (MPAs) and other area-based fisheries management rules (e.g. temporary closures) whose emergent properties (namely the interactive effect of scaling-up MPAs) can help achieve fisheries maximum sustainable yield (MSY) and maximize over the long-term socio-economic benefits for the stakeholders in the north-western Mediterranean Sea (NWM).

From November 2016  
to December 2016

### Contract Researcher University of Murcia, Murcia (Spain)

Project: "Effects of the marine reserve of Cabo de Palos e Islas Hormigas"  
Project ID: 26033.

From June 2011  
to October 2012

### Project manager Lecce (Italy)

"Risorsa Mare" project (<http://www.contronda.it/web/risorsa-mare>)

Collection and recycling of marine litters along the coast of the city of Otranto (South-Est Italy), providing qualitative and quantitative analysis of the accumulation of waste on the coast

## EDUCATION

From September 2012  
to July 2016

### Ph.D. in "Biodiversity and Environmental Management" PhD degree with mention Cum Laude and International PhD

University of Murcia, Murcia, Spain

Thesis titled "Dispersal patterns and connectivity among Mediterranean reef fish populations: the case of the saddled sea bream, *Oblada melanura* [Linnaeus, 1758] in the Western Mediterranean Sea". Tutor: Dr. José Antonio García-Charton.

Principal subjects covered: fish population dispersal and connectivity (genetic and demographic); fish early life history traits; propagule dispersal simulations; MPA networks design

From December 2009  
to March 2012

**Master's degree in "Evaluation of Environmental Impacts and Certification"**

**Degree grade: 110/110 Cum Laude and University Special Mention**

University of Salento, Lecce, Italy

Final dissertation titled "Dispersal patterns and connectivity of coastal fish: implications for planning effective networks of Marine Protected Areas". Director: Dr. Paolo Guidetti.

Principal subjects covered: effects of MPAs; connectivity of fish populations; fish early life history traits; fish resources conservation strategies

From October 2006  
to December 2009

**Bachelor's degree in "Environmental Sciences"**

**Degree grade: 110/110**

University of Salento, Lecce, Italy

Final dissertation titled "Spatial distribution and habitat selection of juveniles of white sea bream *Diplodus sargus sargus* (Linnaeus, 1758) along the Adriatic coast of Puglia (Italy)". Director: Dr. Paolo Guidetti.

Principal subjects covered: fish habitat selection, geographical information system (GIS); fish early life history traits; effects of MPAs

## ACADEMIC ACTIVITIES

### Teaching activity

- Practical Lecturer (10 h) on "Management of the natural environment". Bachelor's degree in Biology, University of Murcia (2015)
- Practical Lecturer (25 h) on "Sampling design - Ecology". Bachelor's degree in Environmental Sciences and Biology, University of Murcia (2014)
- Practical Lecturer (25 h) on "Data analysis - Ecology". Bachelor's degree in Environmental Sciences and Biology, University of Murcia (2014)
- Practical Lecturer (10 h) on "Management of the natural environment". Bachelor's degree in Biology, University of Murcia (2014)

### Seminars

- Dispersal and connectivity patterns in a Mediterranean coastal fish: genetics, otolith analysis and dispersal simulations. April 2016, University of Murcia (Spain)
- Assessing connectivity among fish populations by a multidisciplinary approach: otolith micro-structure and micro-chemical analyses. 23<sup>Rd</sup> April 2015, University of Murcia (Spain)
- Assessing connectivity among fish populations by a multidisciplinary approach: otolith micro-structure and micro-chemical analyses. 21<sup>st</sup> January 2014, University of Murcia (Spain)
- Italian MPAs: an overview. 23<sup>Rd</sup> March 2013, University of Murcia (Spain)
- Risorsa Mare Project. 28<sup>th</sup> March 2013, University of Bari (Italy)

### Tutorship

- Tutor of the Master's thesis "The white gorgonian (*Eunicella singularis*, Esper 1794) as indicator of mechanical and environmental perturbations in the marine reserve of Cabo de Palos e Islas Hormigas". Undergraduate student: José Manuel Pereñíguez-López. Master's course in Management of Biodiversity in Mediterranean Environments (2014/2015), University of Murcia, Spain

## TRAININGS AND COURSES

From May 4<sup>th</sup>  
to May 9<sup>th</sup> (2016)

### **Master course on “Building the next generation of leadership in marine conservation, part 2”**

Organized by NOAA and WWF, Syros Island (Greece)

Lecturers: Dr. Ruth Howell (NOAA), Dr. Katherine Cheney (NOAA), Dr. Ann Walton (NOAA), Dr. Giuseppe di Carlo (WWF Med), Dr. Mauro Randone (WWF Med).

Principal subjects covered: Collaborative leadership; MPA stakeholder engagement; Story telling; Engagement campaign

From October 1<sup>st</sup>  
to October 12<sup>th</sup> (2015)

### **Master course on “Building the next generation of leadership in marine conservation, part 1”**

Organized by NOAA and WWF, Ancona (Italy)

Lecturers: Dr. Sarah Fangman (NOAA), Dr. Ann Weaver (NOAA), Dr. Jason Philibotte (NOAA), Dr. Anne Walton (NOAA), Dr. Giuseppe di Carlo (WWF Med).

Principal subjects covered: Personal leadership development in the context of marine conservation; Leadership skills; MPA problem solving

From March 16<sup>th</sup>  
to March 20<sup>th</sup> (2015)

### **Advanced Training on “How is Your MPA Managed? A Training in MPA Management Planning”**

Organized by NOAA and WWF, Santa Margherita Ligure, Genoa, (Italy)

Lecturers: Dr. Anne Walton (NOAA), Dr. Becky Shortland (NOAA).

Principal subjects covered: MPA Pre-planning process, Impact assessment and Planning process; MPA zoning as a management tool

From October 12<sup>th</sup>  
to October 19<sup>th</sup> (2014)

### **Advanced Training on “Setting up (and managing) successful proposals for research and conservation”**

Observatoire Océanologique de Villefranche-sur-Mer (France)

Lecturers: Prof. Fiorenza Micheli (Stanford University), Prof. Paolo Guidetti (University of Nice), Dr. Luisa Mangialaio (University of Nice), Dr. S. Redzepagic (University of Nice), Dr. Arianna Broggiato (Catholic University of Louvain).

Principal subjects covered: Setting up a proposal for the European Community; Founding programs and opportunities for research and conservation – Horizon 2020

From September 22<sup>nd</sup>  
to September 26<sup>th</sup> (2014)

### **Summer school on “Mediterranean Sea: Models, Observations and Experiments”**

CNR-ISAC, Castro Marina, Lecce (Italy)

Lecturers: Prof. Nadia Pinardi (University of Bologna), Dr. Sandro Carniel (CNR), Dr. Luigi Palatella (CNR), Dr. Federico Falcini (CNR), Dr. Daniele Iudicone (Anton Dohrn Zoological Station), Dr. Maurizio Ribera d'Alcalà (Anton Dohrn Zoological Station), Prof. Enrico Zambianchi (University of Naples “Parthenope”), Dr. Francesco Bignami (CNR).

Principal subjects covered: Large scale circulation and ocean prediction in the Mediterranean Sea; Coastal processes and upwelling; Lagrangian modeling and connectivity among marine populations

From June 23<sup>rd</sup>  
to June 28<sup>th</sup> (2014)

### **Course on “An introduction to generalised linear models and extensions using R”**

University of Bologna, Ravenna (Italy)

Lecturer: Dr. Francesco Ferretti (Stanford University).

Principal subjects covered: Generalized linear models; Generalized mixed effect models; Generalized additive models

From April 14<sup>th</sup>  
to April 18<sup>h</sup> (2014)

**Course on “Quantitative - Ecosystem Approach to Fisheries ”**

IFREMER, Sète (France)

Lecturers: Dr. Marta Coll, Dr. Maria Grazia Pennino, Dr. Sybille Dueri, Prof. Philippe Cury, Dr. Christophe Lett and Dr. David Kaplan (IFREMER).

Principal subjects covered: Larval dispersal models; Spatial distribution models; EAF; DEB theory; Ecosystem/trophic models (introduction to Ecopath and Ecosim); Modelling MPAs

From April 8<sup>th</sup>  
to April 9<sup>h</sup> (2014)

**Course on “Google earth as a tool for divulging scientific information”**

University of Murcia (Spain)

Lecturer: Dr. Eduardo García Milagros

From September 22<sup>nd</sup>  
to October 3<sup>rd</sup> (2013)

**Advanced Training on “The social, economic and institutional perspectives in the co-management of MPAs”**

University of Murcia (Spain)

Lecturers: Prof. Peter Jones (University College London), Dr. Sergio Villamayor-Tomas (Humboldt University), Dr. Clare Fitzsimmons (Newcastle University), Dr. Betty Queffelec (Brest University), Dr. Mauro Randone (WWF Mediterranean).

Principal subjects covered: Socio-ecological systems; Community-based management; MPA governance analysis; Legal aspects and management of Mediterranean MPAs; Fisheries and marine management and governance; Geographical information system (GIS) course

From March 18<sup>th</sup>  
to March 27<sup>th</sup> (2013)

**Advanced course on “Marine Ecology: recruitment, connectivity and dynamics of marine populations”**

University of Aveiro (Portugal)

Lecturers: Prof. Henrique Queiroga (Univeristy of Aveiro), Prof. Steve Morgan (University of California, Davis), Prof. Stephen Swearer (University of Melbourne), Prof. Ester Serrao (University of Algarve), Dr. Ricardo Calado and Dr. Ana Hilário (Unversity of Aveiro).

Principal subjects covered: Marine populations dynamics and connectivity; Recruitment; Conservation of marine resources

From January 14<sup>th</sup>  
to February 25<sup>th</sup> (2013)

**Course on “Statistics for research. Introduction to R”**

University of Murcia (Spain)

Lecturer: Dr. Antonio Maurandi Lopez (Universidad de Murcia).

Principal subjects covered: R software package; Analysis of variance

From September 28<sup>th</sup>  
to October 7<sup>th</sup> (2012)

**Training on “Principles of experimental design applied to Marine Protected Areas management”**

Olbia (Italy)

Lecturers: Dr. Francesco Ferretti (Stanford University), Prof. Paolo Guidetti (University of Nice), Dr. Luisa Mangialaio (University of Nice), Dr. Massimo Ponti (University of Bologna), Prof. Carlo Cerrano (Polytechnic University of Marche).

Principal subjects covered: R package for statistical analyses of environmental data; Sampling design; Mediterranean marine protected species

**PRACTICAL TRAININGS  
AND STAGES**

From August 18<sup>th</sup>

**Practical training on Marine Protected Area management**

to August 30<sup>th</sup> (2014)

Marine Protected Area of Tavolara-Punta Coda Cavallo, Olbia, Italy.  
Manager: Mr. Augusto Navone (MPA director)

From November 1<sup>st</sup> (2013)  
to January 31<sup>st</sup> (2014)

**Stage for the chemical analysis of fish calcified structures (otoliths)**

Laboratory of Mass, Analytic and Isotopic Spectrometry, Department of Cultural heritage, University of Salento, Lecce, Italy. Tutor: Prof. Giuseppe Egidio De Benedetto

From October 6<sup>th</sup>  
to October 15<sup>th</sup> (2013)

**Practical training on Marine Protected Area management**

Marine Protected Area of Port Cros-Porquerolles, Port Cros, France.  
Manager: Mr. Serge Moreau (Park director)

## PERSONAL SKILLS

Mother tongue(s)

### ITALIAN, SALENTINO

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken Production	
English	C1	C1	C1	C1	C1
Spanish	C2	C2	C1	C1	C1
<b>(Servicio de Idiomas, Universidad de Murcia C.1.1)</b>					
French	A2	A2	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Organisational/managerial activity

Co-founder and president of "Associazione ContrOnda" an association that carries out projects for environmental conservation in the South-Est Italy ([www.contrononda.it](http://www.contrononda.it))

Job-related skills

Competences acquired during several sampling campaigns and laboratory experiences:

- High competence in performing fish otolith analysis (chemical and structural)
- High competence in performing underwater samplings (fish, benthic macrofauna and megafauna and marine vegetation communities)
- High competence in specific detection of Mediterranean fish at different life stages (larval, juvenile, adult) and sessile/vagile benthic Mediterranean organisms
- High competence in sampling fish at different life stages (using light-traps, underwater samplings and traps) and competence in marking fish adult individuals for telemetry and mark-recapture campaigns
- Competence in statistical analysis in ecology and sampling design
- Competence in population genetic analysis

Computer skills

- Proficient user of R software and packages for statistical analyses
- Proficient user of Primer 6 & Permanova+ package for statistical analyses

- Proficient user of Ichthyop (software for modelling marine propagule dispersal)
- Good command of ESRI ArcGIS and knowledge of QGIS software
- Good command of software for processing and analysing genetic data: GeneMapper, MicroChecker, GenAlex, Genepop and R packages for genetic analyses)
- Good command of WordPress, Photoshop and Gimp
- Good command of OS: Linux and Windows
- Good command of Microsoft Office tools, Mendeley, Zotero

#### Licenses

- Open Water Diver (PADI)
- Two Star Diver (CMAS)
- Enriched Air Diver (PADI)
- Nautical Licence (within 12 miles from the baseline)
- European Driving Licence: A1 and B

#### Other activities

- Volunteer Diver (2009-2012). Diving Unit of 'Associazione Volontariato Protezione Civile Palmariggi', via Trieste, Palmariggi (LE), part of the Italian 'Civil Protection Volunteer Association'.
- Chef at McDonald's (2012, 3 months). McDonald's - Bristol Hengrove Leisure Park, Hengrove Way, Bristol (UK).

### ADDITIONAL INFORMATION

#### Selected SCI Publications with impact factor

- **Calò A**, Di Franco A, Pennetta A, De Benedetto GE, Pérez-Ruzafa Á, García-Charton JA (2016). *Propagule dispersal and larval patch cohesiveness in a Mediterranean coastal fish*. Marine Ecology Progress Series 544: 213-224
- **Calò A**, Muñoz I, Pérez-Ruzafa Á, Vergara-Chen C, García-Charton JA (2016). *Spatial genetic structure in the saddled sea bream (*Oblada melanura* [Linnaeus, 1758]) suggests multi-scaled patterns of connectivity between protected and unprotected areas in the Western Mediterranean Sea*. Fisheries Research 176: 30-38
- Di Franco A, **Calò A**, Pennetta A, De Benedetto GE, Planes S, Guidetti P (2015). *Dispersal of larval and juvenile sea bream: Implications for Mediterranean marine protected areas*. Biological Conservation 192: 361-368
- **Calò A**, Félix-Hackradt FC, Garcia J, Hackradt CW, Rocklin D, Treviño-Otón J, Garcia-Charton JA (2013). *A review of methods to assess connectivity and dispersal between fish populations in the Mediterranean Sea*. Advances in Oceanography and Limnology 4:2, 150-175
- Di Franco A, Kaicheng Q, **Calò A**, Di Lorenzo M, Planes S, Guidetti P (2013). *Assessing patterns of variability in early life traits: the case study of a Mediterranean coastal fish*. Marine Ecology Progress Series, 476: 227-235

#### Other Publications without impact factor

- Marti Puig P, **Calò A**, Ponti M, Costantini F, Villamor A, Abbiati M, García-Charton JA (2016). *Guidelines on genetic connectivity as a tool for assessing the effectiveness of Marine Protected Areas*. Rapp. Comm. int. Mer Médit., 41 : 417

- García-Charton JA, Bejarano I, **Calò A**, Codognotto Capuzzo MS, Hernandez-Andreu R, Mateos-Molina D, Pereñiguez-Lopez JM, Rojo-Moreno I, Barcala Bellod E, Marcos C, Perez-Ruzafa A (2016). *Estudios de seguimiento de la reserva marina de Cabo de Palos - Islas Hormigas 2015*.
- García-Charton JA, Aguilar A, Barcala-Bellod E, Bejarano I, **Calò A**, Hernandez-Andreu R, Mateos-Molina D, Pereñiguez-Lopez JM, Rojo-Moreno I, Marcos C, Perez-Ruzafa A (2015). *Estudios de seguimiento de la reserva marina de Cabo de Palos - Islas Hormigas 2014*.
- García-Charton JA, Lorenzi MR, **Calò A**, Treviño-Oton J, Hernandez-Andreu R, Rocklin D, Irigoyen A., Muñoz-Gabaldon I, Marcos C, Perez-Ruzafa A (2014). *Estudios de seguimiento de la reserva marina de Cabo de Palos - Islas Hormigas 2013*.
- Guidetti P, Bussotti S, **Calò A**, Di Franco A, Di Lorenzo M, Qian K, Mazzoldi C, Planes S, Sayhoun R, Turnone G (2011). Reproductive patterns and early life-history traits of the two-banded sea bream (*Diplodus vulgaris*, Geoffroy Saint-Hilaire, 1817) at the Marine Protected Area of Torre Guaceto (SW Adriatic, Italy): implications for management and conservation. Actes du Congrès 2011 de la Societé Zoologique de France. pp 82-83. Francour P, Bodilis P, Arceo H (editors). Nice 13-16 September 2011. Université de Nice publ., Nice, France: 184 pp.

#### Books and book chapters

- Marti-Puig P, **Calò A**, Costantini F, Villamor A., Abbiati M, Ponti M, García-Chartón JA. Genetic connectivity and diversity as a tool to assess the effectiveness of marine protected areas (2016). In: *MMMPA Supervisory Board (Eds), Monitoring Mediterranean Marine Protected Areas: A set of guidelines to support the development of management plans*. Deliverable of the MMMPA European project (FP7-PEOPLE-2011-ITN g.a. no.: 290056). Ancona, 116 pages.
- García-Charton JA, Pérez-Ruzafa A, Marcos C, **Calò A**, Rocklin D, Félix-Hackradt FC, Hackradt CW, Garcia J, Treviño-Otón J (2013). *Conectividad y Red Natura 2000 marina*. In: *Red Natura 2000 en España*, WWF/Adena, Madrid.

#### Outreach Production

- **Win-Win: the Marine Protected Area Story**. Written and directed by **Calò A**, Hogg K, Mateos-Molina D. Produced by MMMPA project. <https://www.youtube.com/watch?v=pTACI2Sy0A>
- **Regreso al futuro. El valor de la pesca sostenible. (Back to the future, the value of sustainable fishing)**. Produced by Asociación Columbares. Written and Directed by Lorenzi., M.R. Underwater scenes provided by **Calò A**. <https://www.youtube.com/watch?v=exXxCKn5fe8>

#### Selected Conferences

- Marti-Puig P, **Calò A**, Ponti M, Costantini F, Villamor A, Abbiati A, García-Charton JA. *Guidelines on genetic connectivity as a tool for assessing the effectiveness of Marine Protected Areas*. 41<sup>st</sup> CIESM Congress, 12-16 September 2016, Kiel (Germany).
- García-Charton JA, **Calò A**, Pereñiguez-Lopez JM, Hernández-Andreu R, Rojo-Moreno I, Mateos-Molina D. *Efectos de las reservas marinas sobre los recursos marinos y la biodiversidad: papel del seguimiento científico*. 3ª Jornada sobre Medio Ambiente Marino y Litoral en la Comunidad Valenciana y Murcia, 29 January 2016, Alicante, (Spain).
- Pereñiguez-López JM., Hernández-Andreu R, Rojo I, **Calò A**, García-Charton JA. *La gorgonia blanca (Eunicella singularis) como indicadora de perturbaciones mecánicas y ambientales en la reserva marina de Cabo de Palos- Islas Hormigas*. V Congreso de la Naturaleza de la Región de Murcia, 25-28 November 2015, Murcia, (Spain).
- Mateos-Molina D, Scharer-Umpierre M, **Calò A**, Rojo-Moreno I, Hernández-Andreu R, García-Charton JA. *Sound production as an indicator of *Epinephelus marginatus* and *Mycteroperca rubra* spawning aggregations in a Mediterranean MPA*. MMMPA project

final conference and CIESM Committee VI, 15-17 October 2015, Ancona, (Italy).

- **Calò A**, De Benedetto GE, Di Franco A, Pennetta A, Pérez-Ruzafa A, García-Charton JA. *Propagule dispersal and larval patch cohesiveness in a Mediterranean coastal fish*. MMMPA project final conference and CIESM Committee VI, 15-17 October 2015, Ancona, (Italy).
- **Calò A**, García-Charton JA. *Evaluating fish population connectivity by a multidisciplinary approach: otolith micro-structural and micro-chemical analyses*. SUBLIMO, Workshop drivers, 26-28 April 2015, Ile des Embiez, (France).
- Di Franco A, **Calò A**, Pennetta A, De Benedetto GE, Francour P, Planes S, Guidetti P. *Investigating early stages dispersal using otolith chemistry: surprising relevance of the post-settlement phase in a temperate coastal fish*. 5<sup>th</sup> International Otolith Symposium, 20-24 October 2014, Mallorca (Spain).
- **Calò A**, Di Franco A, Guidetti P, García Charton JA, *Competency phase affects patterns of fish early life traits*. 5<sup>th</sup> International Otolith Symposium, 20-24 October 2014, Mallorca (Spain).
- Murenu M, Muntoni M, Rocklin D, Frongia C, **Calò A**, García-Charton JA, Giacalone VM, Carta G, Vega-Fernandez T, D'Anna G. *Settlement synchronization in the red mullet (*Mullus barbatus*) as inferred from otolith sclerochronology*. 5<sup>th</sup> International Otolith Symposium, 20-24 October 2014, Mallorca (Spain).
- **Calò A**, Di Franco A, Guidetti P, García Charton JA, *Multiscale pattern of variability in early life traits of a mediterranean coastal fish*. 49<sup>th</sup> European Marine Biology Symposium, 8-12 September 2014, St. Petersburg (Russia).
- Di Franco A, **Calò A**, Qian N, Di Lorenzo M, Sahyoun R, Bussotti S, Planes S, Guidetti P. *Dispersal patterns and connectivity of coastal fish: implications for planning effective networks of marine protected areas*. International Meeting on Marine Resources - IMMR'12, 24-25 May 2012, Peniche (Portugal).
- Guidetti P, Bussotti S, **Calò A**, Di Franco A, Di Lorenzo M, Qian K, Mazzoldi C, Planes S, Sayhoun R, Turnone G, 2011. *Reproductive patterns and early life-history traits of the two-banded sea bream (*Diplodus vulgaris*, Geoffroy Saint-Hilaire, 1817) at the Marine Protected Area of Torre Guaceto (SW Adriatic, Italy): implications for management and conservation*. Congrès 2011 - Société Zoologique de France - Nice (France).

#### Posters

- Marti Puig P, **Calò A**, Costantini F, Villamaior A, Abbiati, Ponti M, García-Charton JA. *Guidelines on genetic connectivity as a tool for assessing the effectiveness of Marine Protected Areas*. MMMPA project final conference and CIESM Committee VI, 15-17 October 2015, Ancona, (Italy).
- **Calò A**, Muñoz-Gabaldón I, Pérez-Ruzafa Á, Vergara-Chen C, García-Charton JA. *Spatial genetic structure in the saddle seabream (*Oblada melanura*) suggests different patterns of connectivity between protected and unprotected areas in the west Mediterranean Sea*. 39<sup>th</sup> Annual Larval Fish Conference, 12-16 July 2015, Vienna (Austria).

#### Journal Reviewer for

#### Participation to research projects

- Marine Biology, Scientia Marina, Journal of Fish Biology, Cahiers de Biologie Marine, Royal Society Open Science
- **Researcher and Scientific Diver**. Project 'Fishing governance in MPAs: potentialities for Blue Economy 2' (FishMPABlue2). Funded by the European Commission (Interreg MED program). P.M. Sr. Luca Santarossa (FederParchi, Italia)
- **Researcher and Scientific Diver**. Project 'Sustainable Fisheries in EU Mediterranean waters through network of MPAs' (Safenet). Funded by the European Commission. 2015-2018, P.C. Dr. Joachim



Claudet, CNRS, CRIOBE-UPVD (Perpignan, France).

- **Researcher and Scientific Diver.** Project 'ABundance, Habitat selection, behavioral syndromes and Connectivity patterns in Mediterranean apex predators (ABHACO<sup>2</sup>DE)'. Funded by Fundación Séneca 19516/PI/14 - Autonomous Government of Murcia. 2015-2018, P.I. Prof. José Antonio García Charton, University of Murcia (Murcia, Spain)
- **Researcher and Scientific Diver.** Project 'Monitoring ecological and fishery effects of the marine reserve of Cabo de Palos - Hormigas Islands'. Funded by the Regional Ministry for Agriculture and Water - Autonomous Government of Murcia (Spain). 2015 - 2016, P.I. Prof. José Antonio García Charton, University of Murcia (Murcia, Spain)
- **Researcher and Scientific Diver.** Project 'Mechanisms for the Recovery of Apex Predators in Mediterranean Marine Protected Areas (REDEMED)'. Funded by Spanish Government. 2014 - 2017, P.I. Prof. José Antonio García Charton, University of Murcia (Murcia, Spain).
- **Researcher and Scientific Diver.** Project 'Monitoring ecological and fishery effects of the marine reserve of Cabo de Palos - Hormigas Islands'. Funded by the Regional Ministry for Agriculture and Water - Autonomous Government of Murcia (Spain). 2014 - 2015, P.I. Prof. José Antonio García Charton, University of Murcia (Murcia, Spain)
- **Researcher and Scientific Diver.** Project 'Monitoring ecological and fishery effects of the marine reserve of Cabo de Palos - Hormigas Islands'. Funded by Regional Ministry for Agriculture and Water - Autonomous Government of Murcia (Spain). 2012 - 2013, P.I. Prof. José Antonio García Charton, University of Murcia (Murcia, Spain)
- **Researcher and Scientific Diver.** Project 'Reef Ecology and design of Marine Protected Areas (RECOMPRA)'. Funded by European Commission. 2012 - 2015. P.I. Prof. José Antonio García Charton, University of Murcia (Murcia, Spain). Partners: University of Murcia, Institute for the Coastal Marine Environment, CNR, Universidade Federal de Pernambuco, Universidade Federal da Paraíba, Centro Nacional Patagónico.
- **Principal Researcher.** Connectivity of Mediterranean reef fish populations and MPA design. WP 3.2 of the project 'Training Network for Monitoring Mediterranean Marine Protected Areas' (MMMPA). Marie Curie - ITN. Funded by the European Commission. 2012 - 2015. P.I.: Prof. Carlo Cerrano, Università Politecnica delle Marche (Ancona, Italy). Partners: 5 Universities (Spain, Greece, France, Italy), 7 Marine Protected Areas, 4 Enterprises, 3 research centres. <http://www.mmmpa.eu/default.asp>.
- **Researcher and Scientific Diver.** Project 'Designing networks of marine protected areas in the Mediterranean context'. Funded by TOTAL FOUNDATION. 2010 - 2012, P.I.: Prof. Paolo Guidetti, University of Salento (Lecce, Italy).
- **Project manager and Principal Investigator.** Project 'Risorsa Mare'. Funded by European Union and Apulia Region. 2011-2012.
- **Field assistant.** Project 'The role of spatial connectivity and trophic interactions in the sustainable management of small-scale fisheries through the implementation of networks of Marine Protected Areas'. PRIN (Projects of Relevant National Interest). Funded by MIUR. 2010 - 2012. P.I.: Prof. Paolo Guidetti, University of Salento (Lecce, Italy).

#### Grants

- **Marie Curie Research Fellowship.** European Community's Seventh Framework Programme (FP7/2007-2013) under Grant Agreement no.: 290056. 3 years.

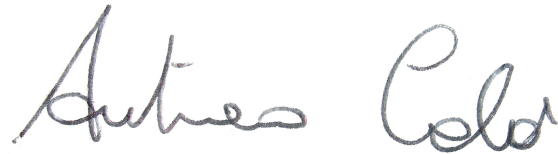
#### Honours and awards

- Finalist (2<sup>nd</sup> place) at the Blue Ocean film festival 2015 (Monaco), 'students category' with the short 'Win-Win: the story of Marine Protected Areas'. 6<sup>th</sup> - 9<sup>th</sup> November 2015.

## References

- Dr. José Antonio García-Charton  
Department of Ecology and Hydrology, Faculty of Biology,  
University of Murcia, Campus Espinardo, Murcia (Spain)  
Email: [jcharton@um.es](mailto:jcharton@um.es) Phone: + 34 868 888184
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Email: [difry@libero.it](mailto:difry@libero.it)

Signature

A handwritten signature in black ink, appearing to read "Antonio Di Franco". The signature is written in a cursive, flowing style.