

### PROFILE

Born on the French west coast, my childhood connection to the ocean fueled my dedication to marine environments. During my bachelor's degree, I had the opportunity to visit reef island ecosystems, where I sadly witnessed their vulnerability to climate change. In this context, I decided to pursue a Ph.D. on coastal protection in French Polynesia, focusing on benthic functionality and communities. My work involves a combination of fieldwork, experiments, and advanced statistical modelling across local and large spatial scales. In addition to my research pursuits, I possess a profound affection for data analysis and visualization, finding immense satisfaction in transforming complex datasets into impactful visual representations.

### PROFESSIONAL EXPERIENCE

- 2025. **Research Fellow** in Marine ecosystem functions, and cumulative impact assessment across European seas at the Spanish Institute of Oceanography – Centre Oceanogràfic de les Balears (IEO–COB), Spain
- 2022. **Research Fellow** in Marine functional diversity in the face of global changes at the Laboratoire d'Océanographie de Villefranche (LOV) & the Marine Ecological Data Analysis and Synthesis (MEDAS) Center, France & Italy
- 2021. **Research Fellow** in Spatio-temporal variability of coral reefs at the global scale: causalities, idiosyncrasies and implications for ecological indicators at Fondation pour la Recherche sur la Biodiversité (FRB), France.
- 2017. **Investigator** in Marine litter quantification and water quality at Surfrider Foundation Europe (SFE), France.
- 2014. **Coastal warden** at Conservatoire de l'Espace Littoral et des Rivages Lacustres (CELRL), France.

### EDUCATION

- 2021. **Ph.D. on Coral reefs accretion, sea-level rise and waves energy in the face of global changes**  
Paris Sciences et Lettres (PSL) University hosted at the Centre de Recherches Insulaires et Observatoire de l'Environnement (CRIOBE), French Polynesia and France
- 2016. **MSc. in Biodiversity, management and environment on coral reefs** with *great honours*, rank: 6/17  
Ecole Pratique des Hautes Etudes, Paris, France  
Main subjects: Coral reef biodiversity, Biodiversity of evolution, fishery & coral reef management
- 2015. **MSc. in Ecosystem approach in fisheries** with *great honours*, rank: 5/23  
Ecole Nationale Supérieure d'Agrocampus-Ouest (*top school*), Rennes, France  
Main subjects: Marine biology, Fisheries management, Bayesian statistics

### ADDITIONAL TRAINING

- 2024. Functional trait diversity: calculating and interpreting a key component of biodiversity (16 hours).  
Transmitting Science, Remote.
- 2022. Biodiversity knowledge synthesis: an introduction to meta-analyses and systematic reviews (35 hours).  
Centre for Biodiversity Synthesis and Analysis (CESAB), Montpellier, France.

### SCHOLARSHIPS, GRANTS & AWARDS

- European Commission Horizon Europe (HORIZON-MSCA-2024-PF-01) – Seal of Excellence (rank 95.0%)  
Proposal 101204405 - Mediterranean shifts in seaweed and seagrass functioning - February, 9<sup>th</sup> 2025  
<https://e.pcloud.link/publink/show?code=XZGzqtZuu1JA00F7ypQifD9PLbQpBdLYMrk>
- European Marine Biological Resource Centre, Italy (EMBRC-IT) Grant (~3675€) – Excellent Research Project  
Proposal 30720 - Synergies of Benthic Communities to Ocean Acidification - May 7<sup>th</sup>, 2024  
<https://e.pcloud.link/publink/show?code=XZCRqtZ14I2w0flrcVgd2Qb8nNQ642HYarX>
- Institut de Ciències del Mar Award (1000€) – Top 5 highest-quality Expressions of Interests

Training to write a MSCA proposal & UN Ocean Decade - Barcelone, Spain - April 8<sup>th</sup> to 12<sup>th</sup>, 2024

<https://e.pcloud.link/publink/show?code=XZRRqtZaCpjQISLN5434V4LwQL6sHTPLouk>

- Société Française d'Ichtyologie scholarship (500€) – Top 5 best student's abstract  
Study of the fish distribution in French Polynesia - Marseille, France - May 26<sup>th</sup> and 27<sup>th</sup>, 2016  
<https://e.pcloud.link/publink/show?code=XZw1EtZ6M7weSK86eYYlkiYNTThN8AVWlly> (Page 9)

## **SPECIALIZED SKILLS**

- Fieldwork and Laboratory
  - Coral growth measures by staining (*in situ*), by alkalinity anomaly method (*ex situ*)
  - Benthic complexity definition (chain-tape method and photogrammetry)
  - Coral underwater identification (genus level for coral, family level for reef fishes)
  - Benthic metabolism incubation experiments (photosynthesis, calcification, respiration, nutrient cycling)
  - Reef fish capture using clove oil techniques
- Statistics (R software)
  - Bayesian, frequentist and descriptive statistics
  - Huge database management, homogenization and use of GitHub and GitLab for better reproducibility
  - Advanced knowledge in modelling (General Linear Model, General Additive Models, Mixed Models) and multivariate analysis (NMDS, PCA, CA, PCoA, RDA, GPA)
- Cartography (ArcGIS & QGIS softwares)
  - Spatial analysis (e.g., buffer, intersection, union)
  - Cumulative impacts
- Image analysis (Agisoft Metashape and ImageJ softwares)
  - Photogrammetry (e.g., Transect or species)
  - Measures of precision (*i.e.*, length, volume and surface definition)
- Languages
  - French: mother tongue
  - English: Fluent speaking, reading, and writing.
  - Spanish: Fluent speaking, reading, and writing.
  - Catalan: Basic understanding
  - Italian: Basic understanding
- Diving and driving diplomas
  - Diver Class 1B (French working diploma, revised in 2022), N3 FFESSM (> 875 accounted dives in total)
  - Driving and Boating Licenses.

## **LECTURES** (40 HOURS)

- *University Lecturer of 4 courses on Reproducible Science & Statistics (CNRS/CESAB/CSIC)*
  - The use of Bayesian statistics in ecology (1 hour) Lab on-demand (2024)
  - How to do reproducible science? The GitHub endeavour (4 hours) Lab on-demand (2023,2025)
  - A fully reproducible workflow for meta-analyses in R (4 hours) Lab on-demand (2023)
  - Preliminary results from a meta-analysis using natural analogs (1 hour) CESAB Formation (2023)
- *University Lecturer of 5 courses on Coral Reefs (EPHE)*
  - Coastal protection and reef functioning (MOOC) MSc class (2021-2024)
  - Functional ecology in Corals Reefs (4 hours) MSc class (2020-2021)
  - Coral growth and Coastal protection in Corals Reefs (4 hours) MSc class (2020-2021)
  - Diversity-Habitat Relationship in Corals Reefs (8 hours) MSc class (2019)
  - Fish distribution in French Polynesia (MOOC) MSc class (2016-2024)

## **SUPERVISION** (6 STUDENTS)

- PhD. Students (1 student)

2024. **Gaia Grasso**. *Marine biodiversity and ecosystem function of benthic habitats in a changing ocean using novel underwater imaging approaches*  
main PhD supervisors: N. Teixidó, S. Comeau & U. Cardini; **J. Carlot** (advisor)
- MSc. Students (5 students)
2024. **Karla Abril Hernandez Ramirez**. *Understanding ocean acidification effects on coastal marine ecosystems*.
2023. **Romane Torchy**. *Benthic functioning in the face of global change, a meta-analysis*.
2021. **Cyril Hautecoeur**. *Lack of vertical accretion capacity to keep up with future sea level rise*.
2019. **Martin Alessandrini & Hmeniko Tourancheau**. *Study of the growth of 3 coral species (*A. hyacinthus*, *P. verrucosa* and *P. lutea*) in a context of climate change*.

#### **CONTRIBUTED TALKS** (10 CONTRIBUTIONS)

- **Carlot., J.** et al. *Species trait impairment in the Mediterranean Sea following mortality events*  
European Coral Reef Symposium (ECRS) (Naples, Italy) – July 2024
- **Carlot., J.** et al. *Shallow Temperate Reefs \**  
European Coral Reef Symposium (ECRS) (Naples, Italy) – July 2024
- Teixido., N. et al. *Coral populations naturally occur in high pCO<sub>2</sub> environments on the coast of Ischia*  
European Coral Reef Symposium (ECRS) (Naples, Italy) – July 2024
- Comeau., S. et al. *Crustose coralline algae contribution to coral reef carbonate production*  
European Coral Reef Symposium (ECRS) (Naples, Italy) – July 2024
- Ponti, M. et al. *T-MEDNet: a collaborative network to track mass mortality events in the Mediterranean Sea*  
8<sup>th</sup> European Conference on Scientific Diving (ECSD8) (Heraklion, Greece) – April 2024
- Teixido., N. et al. *A window to the future: field research at unique CO<sub>2</sub> vents along the coast of Ischia (Italy)*  
8<sup>th</sup> European Conference on Scientific Diving (ECSD8) (Heraklion, Greece) – April 2024
- Palmisciano., M. et al. *Exploring the mechanisms of emergent community shifts along a CO<sub>2</sub> gradient*  
Western Society of Naturalists Conference (WSNC) (Monterey, California) – November 2023
- Boada., J. et al. *From macrophyte collapses to global environmental change mitigation agents*  
International Temperate Reefs Symposium (ITRS) (Hobart, Tasmania) – July 2023
- **Carlot., J.** et al. *Coral structural complexity loss highly threatens the coastline*  
International Coral Reef Symposium (ICRS) (Bremen, Germany) – July 2022
- **Carlot., J.** et al. *Coral carbonate production from juveniles assists coral reef recovery*  
International Coral Reef Symposium (ICRS) (Bremen, Germany) – July 2021

\* Co-chairing the session

#### **INVITED TALKS** (4 PRESENTATIONS)

- *Ecological trait erosion in the Mediterranean Sea due to Mass Mortality Events*  
Laboratoire d'Océanographie de Villefranche sur mer (LOV) (Villefranche sur mer, France) – February 2024
- *Benthic Functioning in the face of global changes*  
Marine Ecological Data Analysis and Synthesis (MEDAS) Center (Ischia, Italy) – October 2022  
Centre de Recherches Insulaires et Observatoire de l'Environnement (CRIOBE) (Perpignan, France) – November 2022
- *Coastal protection: How to define scenarios of coastal protection for a reef island*  
Instituto Español Océanográfico (IEO) de los Baleares (Palma, Spain) – January 2020

#### **OUTREACHES** (5 CONTENTS)

- Trailers and videos
  - Reef Services – System Factory (2018)  
<https://www.youtube.com/watch?v=Pr39lnkdqn0>
  - Riverine Input by Surfrider Foundation Europe (French voice-over) (2015)  
<https://www.youtube.com/watch?v=as0Y-c3f9gA&themeRefresh=1>
- Newspapers, newsletters and blogs

- Springer Research Communities - Behind the Paper (2025)  
Vulnerability of benthic trait diversity across the Mediterranean Sea following Mass Mortality Events  
<https://go.nature.com/4b7CYAq>
- IRD Newsletter (2023)  
Récifs coralliens en bonne santé : de véritables brise-lames naturels  
<https://www.ird.fr/recifs-coralliens-en-bonne-sante-de-veritables-brise-lames-naturels>
- Boukan Newspaper (2023)  
Polynésie française, des récifs plus efficaces pour protéger les côtes  
<https://boukan.press/polynesie-francaise-des-recifs-bien-portants-plus-efficaces>

## REVIEWING CONTRIBUTIONS (34 REVIEWS)

Nature (1), NPJ Ocean Sustainability (1), Global Change Biology (4), Communications Earth & Environment (1), Functional Ecology (3), Coral Reefs (5), Scientific Reports (2), PeerJ (1), Marine Ecology Progress Series (2), Egusphere (2), Marine Biology (5), Royal Society Open Science (1), Journal of Experimental Marine Biology and Ecology (1), Hydrobiologia (1), Restoration Ecology (2), Journal of Phycology (1), Journal of Animal Ecology (1)

2025. Guest editor *Frontiers in Marine Science* on “Adaptation and Evolution in Marine Extreme Environments”

## PUBLICATIONS (17 PUBLICATIONS)

Current statistics from [Google Scholar](#) page: ≥ 475 citations, H-index = 11, i<sub>10</sub> index = 11

### 1) Peer-reviewed articles

17. **Carlot, J.**, Galobart, C., Gomez-Gras, D., Santamaria, J., Golo, R., Sini, M., Cebrian, E., Gerovasileiou, V., Ponti, M., Turicchia, E., Comeau, S., Rilov, G., Tamburello, L., Pulido Mantas, T., Cerrano, C., Ledoux, J-B., Gattuso, J-P., Ramirez-Calero, S., Millán Agudo, L., Montefalcone, M., Katsanevakis, S., Garrabou, J. & Teixidó, N. (2025) Vulnerability of benthic trait diversity across the Mediterranean Sea following Mass Mortality Events. *Nature Communications* <https://doi.org/10.1038/s41467-025-55949-0>
16. Brandl, S. J., **Carlot, J.**, Graham, N. A. J., Stuart-Smith R. D., Donovan, M. K., Keith, S. A., Edgar, G. J., Wicquart, J., Guilhaumon, F., Bigot, L., Job, S., Maréchal, J. P., Wickel J., Wilson S., Karkarey R., Arthur, R., Baird, A., Hoey A. S., Arias-Gonzalez, J. E., Mouillot, D., Adjerooud, M. & Parravicini, V. (2024) Unifying coral reef states through space and time reveals a changing ecosystem. *Global Ecology and Biogeography*. <https://doi.org/10.1111/geb.13926>
15. Pérez-Rosales, G., Rouzé, H., Pichon, M., Bongaerts, P., Bregere, N., **Carlot J.**, UTP Consortium, Parravicini, V. & Hédouin, L. (2024) Differential strategies developed by two light-dependent scleractinian corals to extend their vertical range to mesophotic depths. *Coral Reefs*. <https://doi.org/10.1007/s00338-024-02544-2>
14. Raick, X., Krimou, S., Mery, E., **Carlot, J.**, Carpentier, C., Sowinski, J., Sowinski, L., Minier, L., Roux, N., Maueau, T., Bertucci, F. & Lecchini, D. (2024) Restoring the reef: coral restoration yields rapid impacts on fish assemblages. *Estuarine, Coastal and Shelf Science*. <https://doi.org/10.1016/j.ecss.2024.108734>
13. Teixidó, N., **Carlot, J.**, Alliouane, S., Ballesteros, E., Gambi, M C., Gattuso, J. P., Kroeker, K., Micheli, F., Mirasole, A., De Vittor, C., Parravicini, V. & Villéger, S. (2024) Functional changes across marine habitats due to ocean acidification. *Global Change Biology*. <https://doi.org/10.1111/gcb.17105>
12. Cornwall, C. E., **Carlot, J.**, Branson, O., Courtney, T. A., Harvey, B. P., Perry, C. T., Andersson, A. J., Diaz-Pulido, G., Johnson, M. D., Kennedy, E., Krieger, E. C., Mallela, J., McCoy, S. J., Nugues, M. M., Quinter, E., Ross, C. L., Ryan, E., Saderne, V. & Comeau, S. (2023) Crustose coralline algae can contribute more than corals to coral reef carbonate production. *Communications Earth & Environment*. <https://doi.org/10.1038/s43247-023-00766-w>
11. Jouval, F., Adjerooud, M., Bigot, L., Bureau, S., Chabanet, P., Obura, D., Parravicini, V., Guilhaumon, F., Brandl, S., J., **Carlot, J.** & Penin, L. (2023) Recovery potential of coral reefs in the South-Western Indian Ocean. *Ecological Indicators*. <https://doi.org/10.1016/j.ecolind.2023.109952>

10. **Carlot, J.**, Vousdoukas, M., Karambas, T., Rovere, A., Lenihan, H., S., Kayal, M., Adjeroud, M., Pérez-Rosales, G., Hedouin, L. & Parravicini V. (2023) Coral reef structural complexity loss exposes coastlines to waves. *Scientific Reports*. <https://doi.org/10.1038/s41598-023-28945-x>
9. Pérez-Rosales, G., Hernández-Agreda A., Bongaerts, P., Rouzé, H., Pichon, M., **Carlot, J.**, Torda, G., UTP consortium, Parravicini, V. & Hédouin, L. (2022) Mesophotic depths hide high coral cover communities in French Polynesia. *Science of the Total Environment*. <http://dx.doi.org/10.1016/j.scitotenv.2022.157049>
8. Pérez-Rosales, G., Pichon, M., Rouzé, H., Villeger, S., Torda, G., Bongaerts, P., **Carlot J.**, UTP Consortium, Parravicini, V. & Hédouin, L. (2022) Mesophotic coral ecosystems of French Polynesia are hotspots of alpha and beta generic diversity for scleractinian assemblages. *Diversity and Distributions*. <https://doi.org/10.1111/ddi.13549>
7. **Carlot, J.**, Rouzé, H., Barneche, D., Merciere, A., Espiau, B., Cardini, U., Brandl, S. J., Casey, J. M., Pérez-Rosales, G., Adjeroud, M., Hédouin, L. & Parravicini, V. (2022) Scaling up calcification, respiration, and photosynthesis rates of six prominent coral taxa. *Ecology & Evolution*. <https://doi.org/10.1002/ece3.8613>
6. **Carlot, J.**, Kayal, M., Brandl, S. J., Casey, J. M., Lenihan, H. S., Adjeroud, M., Cardini, U., Merciere, A., Barneche, D., Rovere, A., Hedouin, L. & Parravicini, V. (2021) Juvenile corals underpin coral reef carbonate production after disturbance. *Global Change Biology*. <https://doi.org/10.1111/gcb.15610>
5. Morat, F., Wicquart, J., Schiettekatte, N., De Sinéty, G., Bienvenu, J., Casey, J., Brandl, S., **Carlot, J.**, Degregori, S., Mercière, A., Fey, P., Galzin, R., Letourneur, Y., Sasal, P., Vii, J. & Parravicini, V. (2020) Individual back-calculated size-at-age based on otoliths from Pacific coral reef fish species. *Scientific data*. <https://doi.org/10.1038/s41597-020-00711-y>
4. Parravicini, V., Casey, J., Schiettekatte, N., Brandl, S., Pozas-Schacre, C., **Carlot, J.**, Edgar, G., Graham, N. A. J., Harmelin-Vivien, M., Kulbicki, M., Strona, G. & Stuart-Smith, R. D. (2020) Delineating reef fish trophic guilds with global gut content data synthesis and phylogeny. *Plos Biology*. <https://doi.org/10.1101/2020.03.04.977116>
3. **Carlot, J.**, Rovere, A., Casella, E., Harris, D., Grellet-Munoz, C., Chancerelle, Y., Dormy, E., Hedouin, L. & Parravicini, V. (2020) Community composition predicts photogrammetry-based structural complexity on coral reefs. *Coral Reefs*. <https://doi.org/10.1007/s00338-020-01916-8>
2. Bruge, A., Barreau, C., **Carlot, J.**, Collin, H., Moreno, C. & Maison, P. (2018) Monitoring Litter Inputs from the Adour River (Southwest France) to the Marine Environment. *Journal of Marine Science and Engineering*. <https://doi.org/10.3390/jmse6010024>
1. Siu, G., Bacchet, P., Bernardi, G., Brooks, A. J., **Carlot, J.**, Causse, R., Claudet, J., Clua, E., Delrieu-Trottin, E., Espiau, B., Harmelin-Vivien, M., Keith, P., Lecchini, D., Maddi-Moussa, R., Parravicini, V., Planes, S., Ponsonnet, C., Randall, J. E., Sasal, P., Taquet, M., Williams, J. & Galzin, R. (2017) Shore fishes of French Polynesia. *Cybium*. <https://doi.org/10.26028/cybium/2017-413-003>

## 2) Non-peer-reviewed publications

3. **Carlot, J.** (2025) Restoring coastal resilience: The role of macroalgal forests in oxygen production and pH regulation. *Journal of Phycology* <http://dx.doi.org/10.1111/jpy.70019>
2. Garrabou, J., Ledoux, J-B., Ramirez-Calero, S., Zentner, Y., Figuerola-Ferrando, L., Gómez-Gras, D., Linares, C., Ponti, M., Turicchia, E., Pulido, T., Cerrano, C., Teixidó, N., **Carlot, J.**, Jou, M., Millan, L., Cebrian, E., Galobart, C., Santamaría, J., Sini, M., Gerovasileiou, V., Bensoussan, N. and T-MEDNet network (2024) 24 years tracking mass mortality events and marine heatwaves: when observations overcome the worst scenarios. *CIESM Monographs workshops n°51*. <https://ciesm.org/online/monographs/index.htm>
1. **Carlot, J.**, Rovere, A., Dormy, E., Biaisque, M. & Parravicini, V. (2021) Les derniers gardiens de la côte in *Étonnants récifs*. CNRS Éditions. [EAN: 9782271139092](https://doi.org/10.1017/9782271139092).

## 3) Submitted articles in peer-review process

6. Astruch, P., Bensoussan, N., André, S., Boudouresque, C.-F., Tomas, F., Teixidó, N., **Carlot, J.**, Belloni, B., Garcia-Escudero, C. A., Akçali, B., Alcoverro, T., Apostolaki, E. T., Badalamenti, F., Boada, J., Boulenger, A., Cabral, M., Casoli, E., Chimienti, G., Estaque, T., Fernández Torquemada, Y., Gerakaris, V., Gobert, S., Grech, D., Kletou, D., Mačić, V., Mañez-Crespo, J., Marco-Méndez, C., Molenaar, H., Moreno, D., Sánchez-Lizaso, J. L., Schohn, T., Terrados, J., Torras Jorda, G., Ventura, D., Zenone, A., Albalat-Oliver, B., Bardinal,



V., Barrajón Domenech, A., Belgacem, W., Ben Souissi, J., Bernardeau-Esteller, J., Bianchi, C. N., Castejón, I., Cebrian, E., Charbonnel, E., Cheminée, A., Chéré, E., Chiarore, A., Constantinou, G., Cottalorda, J.-M., Cvitkovic, I., D'Anna, G., Despalatović, M., Dokoza, F., Fernández-Casado, M., Ferrari, B., Ghanem, R., Guillemain, D., Guillén Nieto, J. E., Güresen, A., Hartmann, V., Hernandez, N., Izquierdo Muñoz, A., Jakl, Z., Jamme, S., Karayali, O., Kleitou, P., Kurtović Mrčelić, J., Lazennec, A., Lovat, V., Mancini, I., Mancini, G., Marbà, N., Marengo, M., Michez, N., Mirasole, A., Monnier, B., Morri, C., Navarro-Martinez, P. C., Oprandi, A., Pansini, A., Pergent-Martini, C., Pey, A., Piazzini, L., Procaccini, G., Remón, J. M., Roberty, S., Romero, J., Ruiz, J. M., Sanmarti Boixeda, N., Sant Felix, M., Scannavino, A., Sobrado, F., Stipcich, P., Žuljević, A., Montefalcone, M. Mass flowering of the seagrass *Posidonia oceanica* after 2022 record-breaking marine heatwaves: a Pan-Mediterranean study

Journal targeted: Nature Climate Change

5. Adjeroud, M., **Carlot, J.**, Brandl, S., Bigot, L., Bissery, C., Guilhaumon, F., Job, S., Kayal, M., Maréchal, J.-P., Monnier, O., Pellerin, F., Penin, L., Wickel, J., Wicquart, J. & Parravicini, V. Coral reef monitoring in French overseas: status, gaps, and improvements to meet national and European environmental policy objectives  
Journal targeted: Ecological Indicators
4. Somma, E., Zupo, V., Mutalipassi, M., Ruocco, N., Terlizzi, A., Iamunno, F., **Carlot, J.** & Costantini, M. Strain Selection and Metabolic Shifts in the Benthic Diatom *C. neothumensis* Under Ocean Acidification  
Journal targeted: Ecosystems
3. Parravicini, V., McWilliam, M., Schiettekatte, N. M. D., **Carlot, J.**, Morais, R., Barneche, D. R., Karkarey, R., Adjeroud, M., Burkepile, D., Casey, J. M., Dornelas, M., Edgar, G., Exton, D., Graham, N. A. J., Keith, S., Madin, J., Maire, E., Mouillot, D., Mouquet, N., Stuart-Smith, R., Strona, G., Villeger, S., Wilson, S. & Brandl, S. J. The Global Spectrum of Coral Reef Ecosystem Functions in the Anthropocene  
Journal targeted: PNAS
2. Karkarey, R., Maire, E., Graham, N. A. J., Parravicini, V., Brandl, S. J., **Carlot, J.**, Adjeroud, M., Arthur, R., Alcoverro, T., Wilson, S. K., Goetze, J., Holmes, T. H., Wickel, J., Exton, D. A., & Keith S. A. Asynchronous population trends stabilize mesopredatory coral reef fish communities in the face of global change.  
Journal targeted: Oikos
1. **Carlot, J.**, Comeau, S., Chiarore, A., Mirasole, A., Alliouane, S., Micheli, F., Hurd, C., Gattuso, J.-P., Teixidó, N. Unravelling marine benthic functioning trade-offs under ocean acidification.  
Journal targeted: Global Change Biology

#### 4) Acknowledged in peer-reviewed articles

3. Pernet, F., Dupont, S., Gattuso, J.-P., Metian, M., & Gazeau, F. (2024) Cracking the Myth: Bivalve Farming is not a CO<sub>2</sub> Sink. Reviews in Aquaculture. <https://doi.org/10.1111/raq.12954>
4. Nebot-Colomer, E., Hernandis, S., Mourre, B., Fraile-Nuez, E., Alvarez, A., Deudero, S., Albentosa, M., Vazquez-Luis, M. (2024) No recruits for an ageing population: First signs of probable population extinction in one of the last reservoirs of the Critically Endangered species *Pinna nobilis*. Journal for Nature Conservation. <https://doi.org/10.1016/j.jnc.2024.126600>
2. Schiettekatte, N. M. D., Brandl S. J., Casey J. M., Graham N. A. J., Barneche, D. R., Burkepile, D. E., Allgeier, J. E., Arias-González, J. E., Edgar, G. J., Ferreira, C. E. L., Floeter, S. R., Friedlander, A. M., Green, A. L., Kulbicki, M., Letourneur, Y., Luiz, O. J., Mercière, A., Morat, F., Munsterman, K. S., Rezende, E. L., Rodríguez-Zaragoza, F. A., Stuart-Smith, R. D., Vigliola, L., Villéger, S. & Parravicini, V. (2022) Biological trade-offs underpin coral reef ecosystem functioning. Nature Ecology and Evolution. <https://doi.org/10.1038/s41559-022-01710-5>
1. Picone, F., Buonocore, E., Claudet, Chemello, J. R., Russo G. F. & Franzes, P. P (2020) Marine protected areas overall success evaluation (MOSE): A novel integrated framework for assessing management performance and social-ecological benefits of MPAs. Ocean & Coastal Management. <https://doi.org/10.1016/j.ocecoaman.2020.105370>

#### MAIN COLLABORATORS (16 COLLABORATORS)

- [Valeriano Parravicini](#) Full Professor at CRIObE (FRA) in functional ecology within coral reefs
- [Núria Teixidó](#) Senior Scientist at SZN (ITA) in ecology and resilience of coastal marine habitats

- [Steeve Comeau](#) Full Professor at LOV (FRA) in marine ecology and biogeochemistry
- [Joaquim Garrabou](#) Senior Scientist at ICM (ESP) in ecology and resilience of coastal marine habitats
- [Mehdi Adjeroud](#) Full Professor at IRD (FRA) in ecology and dynamics of coral reefs
- [Jean-Pierre Gattuso](#) Senior Scientist at LOV (FRA) in marine ecology and biogeochemistry
- [Ulisse Cardini](#) Senior Scientist at SZN (ITA) in marine ecology and biogeochemistry
- [Hunter S. Lenihan](#) Full Professor at USCB (USA) in ecology and population dynamics within coral reefs
- [Alessio Rovere](#) Full Professor at Ca' Foscari university (ITA) in geology and coastal protection
- [Simon J. Brandl](#) Assoc. Professor at UTMSI (USA) in cryptobenthic fishes and functional ecology
- [Jordan M. Casey](#) Assoc. Professor at UTMSI (USA) in molecular ecology within coral reefs
- [Héloïse Rouzé](#) Assoc. Professor at UOG (USA) in molecular ecology within coral reefs
- [Mohsen Kayal](#) Assoc. Professor at IRD (NCL) in coral reefs resilience and dynamics
- [Laetitia Hédouin](#) Senior Scientist at CRILOBE (PYF) in ecology of coral reefs
- [Nicolas Casajus](#) Data scientist at CESAB (FRA)
- [Diego R. Barneche](#) Data scientist at AIMS (AUS)