

# FABIO FAVORETTO

I am a marine ecologist with experience in remote sensing. I am interested in studying marine habitats and biodiversity to understand their patterns in space and time to aid conservation efforts. Passionate about data science and the underwater world.

## EDUCATION

- 2020**  
|  
**2016**  
● **PhD, Marine ecology**  
Autonomous University of Baja California Sur 📍 La Paz, Mexico
  - Thesis: Remote Sensing Applications in Seascape Ecology
- 2014**  
|  
**2011**  
● **Master degree in Marine biology**  
University of Trieste 📍 Trieste, Italy
  - Thesis: Plancton diversity and distribution patterns in the Ionian Sea
- 2011**  
|  
**2009**  
● **B.S. Environmental sciences**  
University of Trieste 📍 Trieste, Italy
  - Thesis: Water isotops compositions of the Gulf of Trieste

## RESEARCH EXPERIENCE

- today**  
|  
**2019**  
● **Chief Scientist**  
Centro para la Biodiversidad Marina y la Conservacin 📍 La Paz, Mexico
  - Coordination of scientific projects
- 2019**  
|  
**2018**  
● **Independent contractor**  
Scripps institution of Oceanography - Gulf of California Marine Program 📍 San Diego, USA
  - Database creation, data visualization, reporting. Independently constructed a socioecological model for world mangroves
- 2016**  
|  
**2015**  
● **Research assistant**  
Marine Botany Laboratory 📍 Autonomous University of Baja California Sur, Mexico
  - Handling and analysing taxonomic databases, field coordinator and data analysis
- 2015**  
● **Research assistant**  
Macroalgae Ecophysiology Laboratory 📍 University of Trieste, Italy
  - Analysing data from seaweeds and seagrasses to construct niche modelling and health indexes



[Download a PDF of this CV](#)

## CONTACT

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- 🐦 [FabioFavoretto](#)
- 🌐 [github.com/fabbiologia](https://github.com/fabbiologia)
- 🌐 [lab-website](#)
- 📞 +59 (612) 868-8438

## CODING SKILLS

R  
C  
Python  
Javascript

## OPEN SOURCE CONTRIBUTIONS

[shiny dashboard for the blue-paper 10](#)



## WORK EXPERIENCE

2015  
|  
2012

- **Teaching staff and WWF operator**  
Marine Protected Area of Miramare 📍 Trieste, Italy
  - Responsible for aquariums and monitoring of key organisms (Pinna nobilis and Madrepora spp); Teached and worked as scuba guide for visiting schools

2012  
|  
2011

- **Scientific advisor and technical office member**  
Consorzio Elbano Diving (CED) 📍 Elba Island, Italy
  - Scientific advisor for a conservation project in Elba Island:  
<http://www.elbaced.it>

2012  
|  
2007

- **Divemaster PADI**  
Talas Diving Center 📍 Elba Island, Italy
  - Assisting instructors on courses, guiding novice and pro levels divers, scuba diving equipment maintenance



## TEACHING EXPERIENCE

today  
|  
2017

- **Introduction to oceanography**  
Autonomous University of Baja California Sur 📍 La Paz, Mexico
  - Semester curricular course
  - for undergrads

today  
|  
2017

- **Geographic Information Systems**  
Autonomous University of Baja California Sur 📍 La Paz, Mexico
  - Semester curricular course
  - for undergrads

today  
|  
2017

- **R programming and data science**  
Autonomous University of Baja California Sur 📍 La Paz, Mexico
  - Optional course

today  
|  
2017

- **Rocky reefs monitoring and ecology course**  
Autonomous University of Baja California Sur 📍 La Paz, Mexico
  - Optional course



## SELECTED PUBLICATIONS

2021

- **Diving tourism in Mexico - Economic and conservation importance**  
Marine Policy
  - Authored with Ramiro Arcos-Aguilar, Joy Kumagai, Victoria Jimnez-Esquivel, Adan Leobardo Martinez-Cruz, Octavio Aburto-Oropeza

2020

● **Critical Habitats and Biodiversity: Inventory, Thresholds and Governance**

· Authored with Alex D. Rogers, Octavio Aburto-Oropeza et al.,

2020

● **Interplay of microbial communities with mineral environments in coralline algae**

Science of the Total Environment

· Authored with Patricia M Valdespino-Castillo, Andrea Bautista-Garca, Martn Merino-Ibarra, Roco J Alcantara-Hernndez, Teresa Pi-Puig, F Sergio Castillo, Silvia Espinosa-Matas, Hoi-Ying Holman, Anidia Blanco-Jarvio

2020

● **Driven by Drones: Improving Mangrove Extent Maps Using High-Resolution Remote Sensing**

Remote Sensing

· Authored with Astrid J Hsu, Joy Kumagai, John Dorian, Benigno Guerrero Martinez, Octavio Aburto-Oropeza

2020

● **Being isolated and protected is better than just being isolated: a case study from the Alacranes reef, Mexico**

Frontiers in Marine Science

· Authored with Ismael Mascareas-Osorio, Lorena Len-Deniz, Carlos Gonzlez-Salas, Horacio Prez-Espaa, Mariana Rivera-Higuera, Miguel-angel Ruiz-Zrate, Alejandro Vega-Zepeda, Harold Villegas-Hernndez, Octavio Aburto-Oropeza

2017

● **Testing of the 4SM Method in the Gulf of California Suggests Field Data Are not Needed to Derive Satellite Bathymetry**

Sensors

· Authored with Morel, Y., Waddington, A., Lopez-Calderon, J., Cadena-Roa, M., & Blanco-Jarvio, A.

2017

● **4SM: A Novel Self-Calibrated Algebraic Ratio Method for Satellite-Derived Bathymetry and Water Column Correction**

Sensors

· Authored with Morel, Y.

**9** GRANTS AND AWARDS

2019

|  
2017

● **University Grant: Universidad Autnoma de Baja California Sur (UABCS)**

📍 \$5,000

· Awarded for my research on Remote Sensing

2019

|  
2018

● **Idea Wild**

📍 \$1,500

· Awarded for my research on Remote Sensing

- 2019  
|  
2018
- **CONANP- Comision Nacional Areas Naturales Protegidas, Mexico** 📍 \$18,000
    - Awarded for my research on Remote Sensing
- 2017  
|  
2016
- **Silva Grant International Phycological Society** 📍 \$500
    - Grant awarded for my reasearch on coralline algae



## COMPUTER SKILLS

- Windows, Mac, Linux os;
- Expert command of Microsoft Office tools;
- R-programming;
- Java-script;
- Google Earth Engine;
- C-programming
- SIG softares (Arcgis, Qgis, GrassGIS);

Made with the R package [pagedown](#).

The source code is available at [github.com/fabbiologia/cv](https://github.com/fabbiologia/cv).

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