

OLIVIER COLLARD

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Education

- 2020-22 **M.S. Oceanography.** University of Liège, Liège, Belgium.
2017-20 **B.S. Biotechnology.** Higher Education Institution of Condorcet, Ath, Belgium.

Relevant Experience

- 2022-Pres **Graduate Research Assistant.** Smithsonian tropical institute, Republic of Panama.
Adv: Dr. Matthieu Leray, Dr. Diana Lopez.
DNA extraction on ~500 coral samples. PCR. DNA sequencing. Fieldwork on multiple reefs. Respirometry and Photosynthesis measurement on coral samples. Test of metabolic responses under temperature and salinity stress.
- 3-9/2022 **Undergraduate Research Assistant.** University of Liège (Belgium).
Adv: Dr. Pierre Cardol.
Protein analysis on gel NPAGE. Long-term/short-term thermal and UV stress on corals using a closed aquarium setup. Analysis of photosynthetic activity. HPLC. Statistical analysis on R.
- 2/2022 **Undergraduate Research Assistant.** University of Liège (Belgium).
Adv.: Dr. Stephane Roberty.
Measurement of ROS production by Symbiodiniaceae under light stress. Realization of protein analysis by WESTERN BLOT. Measurement of Chlorophyll content. Cell counting. Cultivation of Symbiodiniaceae. Spectrometry.
- 2-6/2022 **Undergraduate Research Assistant.** University of Terengganu (Malaysia)
Adv.: Dr. Ismail.
Isolation and culture of bacteria from sponges. Extraction of crude extract. Microbial culture using the air membrane surface technique. Antifouling activity test. Thin-layer chromatography.
- 2/2018 **Undergraduate Research Assistant.** University of Mons (Belgium)
Adv.: Dr. Flammang.
Histological cuts of ~50 starfish podia samples using a microtome. Immunolabelling of protein contained in the podia. PCR. Electrophoresis

Core Competencies

- Software use: Proficient in data analysis and visualization using R and R Studio, proficient with Microsoft Office, proficient in Obsidian
- Laboratory techniques: experienced performing DNA extractions, PCR, and DNA sequencing. Experienced in Bioenergetics parameters measurement using Fluorescence measuring devices. Experienced in setting up heat stress systems for coral experiments.
- Marine fieldwork: PADI Advanced open water diver certified, experienced in coral sampling.
- Languages: Spanish (Conversational), English (Fluent), French (Mother)

Service & Volunteer Work

2016 **Turtle keeper.** *The society for the protection of turtle (ARCHELON), Greece. Work in the turtle Revalidation Center. Application of first aid. Maintenance of the center*

2014-2015 **Exchange Student.** *Rotary Program. Mexico.*

Grants and Awards

2022	Erasmus+ scholarship	\$7.200
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Publications

1. Collard, Olivier. "Evaluation of the impact of temperature and light on bioenergetics (photosynthesis/respiration) in the coral *Stylophora pistillata*." (2022).

Certifications

2022	PADI Advanced open water Diver	15 total dives
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