

Piergiorgio Massa



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PROFILE

I'm a Phd student working on fishery genomics. My main research topics are population and seascape genomics, but I'm also strongly interested in genetic load studies, forward-in-time simulations and ancient genomics.

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EDUCATION

University of Bologna

Phd student
2022-ongoing

Polytechnic University of Marche

MSc. Marine biology
2019/2022
Final vote 110/110 with excellence

Polytechnic University of Marche

BSc. Biological sciences
2015/2019
Final vote 110/110 with excellence

COURSES & WORKSHOPS

Polytechnic University of Marche

SLiM workshop with Ben Haller.
2024

University of Goteborg - Sweden

Landscape and seascape genomics.
2023

PR Statistics - online

The Practice of RADseq: Population Genomics Analysis with Stacks (with Julian Catchen)
2023

HCMR - Crete

EMBO Biodiversity Informatics Satellite Meeting.
2023

University of Goteborg - Sweden

An introduction to bioinformatic tools for population genomic data analysis.
2023

CONFERENCES

SIBE congress

Napoli, Italy
2024

SMBE congress

Ferrara, Italy
2023

SIBE congress

Ancona, Italy
2022

RESEARCH

Tuna evolutionary genomics: ongoing

Inference of human-driven evolution in the Atlantic blue fin tuna (*Thunnus thynnus*) from both modern and ancient whole-genome sequences. This project has been granted by ERGA and EMBRC, and it involves the collaboration with the Polytechnic University of Marche (IT), Norwegian Institute for Water Research (NO) and Norwegian University of Life Sciences (NO).

Red mullet population genomics: ongoing

Population genomics on the red mullet (*Mullus barbatus*) from a tricky ddRAD dataset from the EC financed project MED_UNITS. This study involves the collaboration with the Hellenic Center for Marine Research (GR).

Hake seascape genomics: ongoing

Seascape genomics on the hake (*Merluccius merluccius*) from a ddRAD dataset from the same MED_UNITS project. This study involves the collaboration with Lorenzo Zane (University of Padua, IT) team.

Genetic load studies: ongoing

<http://dx.doi.org/10.1101/2023.08.08.552445>

Contribution to Emiliano Trucchi's (Polytechnic University of Marche, IT) paper (under review) on the joint action of population size and gene expression to overall purifying selection pressure in two antarctic penguin species.

Trainee at CNRS-CSM (Monaco, MC): 2022

Implementation of king penguin life-history traits data coming from long-term monitoring in polar areas to already built SLiM models.

MSc. thesis (UnivPM, Ancona, IT): 2022

Study of the ongoing selective forces driving king penguin evolution within the frame of Emiliano Trucchi's former Phd student Flavia Akemi Nitta Fernandes. This study focused on exploring genomic load dynamics by following a forward-in-time simulative approach (SLiM). Results will be published within the main paper.

Trainee at CNR-ISP (Ancona, IT): 2021

Qualitative study of Emperor and Adelie penguins diet through the identification of each ingested taxon diagnostic parts within faecal and stomach samples, focusing on fish species, size and age determination through otolith morphometric analysis