

Paula Masiá Lillo, PhD

Personal information

Phone number: +34 985 100111

E-mail: pmasi@uniovi.es

Personal webpage: <http://www.uniovi.es/~pmasi/>

ID: 50176

Nationality: Spanish

Birth date: 28/05/1990

Birthplace: Oviedo

During my PhD I determined the prevalence and main sources of plastic and microplastic pollution in Asturias, North of Spain. I also worked determining the impact – at physical and genomic level – that microplastics can have on marine species, particularly in the commercial species *Mytilus galloprovincialis*, the mediterranean mussel. For that aim, I developed studies at genomic and epigenetic level, DNA tissue extraction, PCR, among other laboratories techniques. Other duties during my PhD includes teaching and guidance of students while performing their MSc projects; writing, publishing, and act as a reviewer of scientific articles, attending international congress; and helping to develop laboratory research.

Working Experience

April- June: Leading a project with Blue Resources Trust (NGO) related with microplastic contamination in coastal areas and seagrass meadows in Sri Lanka; and collaborating with coral reefs projects.

2021: Associated investigator in a Project of the Spanish ministry (Ref: MCI-20-PID2019-108347RB-IOO) at Oviedo University

2020: Associated investigator in a Project (Ref: FC-GRUPIN-IDI/2018/000201) at Oviedo University

2019 August: 80 hours in teaching participation in the IMBRSea Summer School, in Tjärnö Marine Science Centre, Sweden.

2019 January - March: Internship in the Genomic Laboratories of Oviedo University, working with microplastics and epigenetics.

2017: Three-month internship in the IBSAL (Biomedical institute of Salamanca) laboratories.

Academic Formation

2019-2021: PhD with “Cum Laude” recognition at University of Oviedo, enrolled in the Chemical, Environmental and Bio-food Engineering program, working in microplastics and marine pollution: **“Prevalence and impact of microplastics on the components and relevant species of coastal ecosystems”**

2018-2019: MSc in Marine Conservation at University of Oviedo. 2013-

2017: Degree in Biology at University of Salamanca.

Complementary Formation

2019-2022: Reviewer of different articles for different scientific journals.

2019-2021: Assistance to several Master’s students during PhD.

2021: Three-month doctoral stay at Universidade do Algarve (UAlg - Portugal).

2021: Attendance with a Poster presentation at 1st international Online Workshop. Sustainable fisheries and Global change 2021.

2021: Attendance with a Poster presentation at CitSci Virtual (on-line).

2021: 20h course in “Marine Conservation and biodiversity” gave by UNED (Spanish distance learning University).

2020: 20h course in “Energetic transition” at Oviedo University.

2020: Attendance with a poster at “IX Jornadas Internacionales de Doctorado” convention in Oviedo

2019: CMAS-FEDAS 1 star diving course.

2019: Attendance with an Oral Communication at BLUEPORT congress, Oviedo; and collaboration with the organization of the congress.

2019: Attendance with a poster at ICYMARES convention in Bremen, Germany.

2019 March: Microplastics and environmental health awareness talk at “II Feria de innovación” in Oviedo.

2018: On-line course: Our Earth’s Future; gave by American Museum of Natural History .

2018: On-line course: Biodiversity and Global change; gave by Zúrich University.

2017: Neuroscience course gave by University of Salamanca.

Publications:

Fernandez, S., Garcia-Vazquez, E., Menéndez, D., Acle, S., Dopico, E., Masiá, P., Fernandez, A., Rick, J., Ardura, A. (2022). Emerging microplastics pollution, biopollution and plankton composition from seawater eDNA. Submitted to *Marine Pollution Bulletin*.

Masiá, P., Ardura, A., & Garcia-Vazquez, E. (2022). Microplastics in seafood: relative input of *Mytilus galloprovincialis* and table salt in mussel dishes. *Food Research International*, 110973.

Masiá, P., Mateo, J. L., Arias, A., Bartolomé, M., Blanco, C., Erzini, K., ... & Garcia-Vazquez, E. (2022). Potential microplastics impacts on African fishing resources. *Science of The Total Environment*, 806, 150671.

Masiá, P., Ardura, A., & García-Vázquez, E. (2021). Virgin polystyrene microparticles exposure leads to changes in gills DNA and physical condition in the Mediterranean Mussel *Mytilus Galloprovincialis*. *Animals*, 11(8), 2317.

Blanco-Fernandez, C., Ardura, A., Masiá, P., Rodriguez, N., Voces, L., Fernandez-Raigoso, M., ... & Garcia-Vazquez, E. (2021). Fraud in highly appreciated fish detected from DNA in Europe may undermine the Development Goal of sustainable fishing in Africa. *Scientific Reports*, 11(1), 1-10.

Masiá, P., Ardura, A., Gaitán, M., Gerber, S., Rayon-Viña, F., & Garcia-Vazquez, E. (2021). Maritime ports and wastewater treatment plants as sources of coastal macro, meso and microplastic pollution. *Environmental Science and Pollution Research*

Masiá, P., Sol, D., Ardura, A., Laca, A., Borrell, Y. J., Dopico, E., ... & Garcia-Vazquez, E. (2020). Bioremediation as a promising strategy for microplastics removal in wastewater treatment plants. *Marine Pollution Bulletin*, 156, 111252.

Masiá, P., Ardura, A., & Garcia-Vazquez, E. (2019). Microplastics in special protected areas for migratory birds in the Bay of Biscay. *Marine pollution bulletin*, 146, 993-1001.

Cabanilles, P., Acle, S., Arias, A., Masiá, P., Ardura, A., & Garcia-Vazquez, E. (2022). Microplastics Risk into a Three-Link Food Chain Inside European Hake. *Diversity*, 14(5), 308.

Language and other skills

Level C1 of English (Cambridge school) and Native speaker of Spanish
Volunteering as scientific assistant at Pro-Ocean (<https://www.pro-ocean.com/>)
CMAS-FEDAS 1 star diving course.
Boat driving license
Basic knowledge of R and GIS software