

PERSONAL INFORMATION

Sara Pensieri



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Female | 29/08/1981 | Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input checked="" type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- 2018 - onward National Research Council – Institute for the Study of Anthropic Impacts and Sustainability in the Marine Environment (CNR-IAS), Genoa, Italy.
- Researcher, Area: 04 Earth Sciences - Sector: GEO/12 Oceanography and physics of the atmosphere.
 - Data manager and co-Principal investigator of the W1M3A marine observatory.
- Orcid ID: 0000-0002-7634-8543
Scopus Author ID: 35311650600
WoS Researcher ID: AAL-8735-2021
- 2015 - 2018 National Research Council – Institute of Studies on Intelligent Systems for Automation (ISSIA) Genoa, Italy.
- Researcher, Area: 04 Earth Sciences - Sector: GEO/12 Oceanography and physics of the atmosphere.
 - Data manager and co-Principal investigator of the W1M3A marine observatory.

EDUCATION AND TRAINING

- 2005 - 2015 National Research Council – Institute of Studies on Intelligent Systems for Automation, Genoa, Italy.
- Research fellowship
- 2010 - 2013 PhD in Electronic, Computer, Robotics and Telecommunications Engineering of the School of Science and Technology for Information and Knowledge University of Genoa, Department of Naval, Electrical, Electronic and Telecommunications Engineering (DITEN), Genoa, Italy. EQF level 8
- Analysis of acoustic signals for the measurements of oceanographic parameters and underwater noise.
- 2000 - 2005 Degree in Telecommunication Engineering (LM 27, 30/S), University of Genoa, Department of Computer Science, Systems and Telematics (DIST), Genoa, Italy. EQF level 7
- Radio communication with microcontrollers.

PERSONAL SKILLS

- Mother tongue(s) Italian
- Other language(s) English
- Technology Transfer skills Testing technologies for operational oceanography in real scenarios. Development of algorithms based on pattern recognition and machine learning for acoustic underwater monitoring. Development of data acquisition systems for environmental parameters monitoring. Development of protocols for mobile communication including IoT.

Project Management skills	Co-PI of the Western Mediterranean research facility of the European Research Infrastructure Consortia (ERIC) EMSO (European Multidisciplinary Seafloor and water column Observatory) and ICOS (Integrated Carbon Observation System).
Other skills	Programming embedded systems in Labview and programming in Matlab. Outreach activities at the "Festival della Scienza" and "Festival del Mare", Genoa, Italy.

ADDITIONAL INFORMATION

Projects	<ul style="list-style-type: none"> Horizon 2020, MINKE (Metrology for Integrated marine maNagement and Knowledge-transfer nEtwork, 2021-2025, GA nr. 101008724): creation of a "quality of oceanographic data" framework integrating marine metrology research infrastructures. National program for Research in Antarctica - PNRA18_00154 - B1 "Acoustic Monitoring Of the Ross Sea" (AMORS): methods for processing and analysing underwater acoustic signals to identify and characterize the sources of noise present in Antarctica. POR-FESR project Regione Liguria "Tecnologie IoT per l'Ambiente Marino". Development of an IoT platform consisting of intelligent, cost-effective, low-power and low environmental impact modules to build a robust infrastructure for long-range data transmission above the sea surface. EU-FP7, FixO3 (Fixed point Open Ocean Observatory network, 2013-2017, GA nr. 312463): creation of a network European open ocean fixed point observatories and provision of trans-national access to the infrastructures. EU-FP7, PERSEUS (Policy-oriented marine Environmental Research in the southern EUropean Seas, GA nr. 287600): evaluation of the ecological status of the Mediterranean Sea. EU-FP7, EuroSITES (Integration and enhancement of key existing European deep ocean observatories, 2009-2011, GA nr. 202955): enhancement of Europe's capability for in-situ ocean observations. EU-FP7, MyOcean (2009-2012, GA nr. 218812), EU-FP7-MyOcean-2 (2012-2014, GA nr. 283367): creation of a network of national users for the calibration and validation of the MED-MFC products.
Publications	<ol style="list-style-type: none"> Trucco, A.; Bozzano, R.; Fava, E.; Pensieri, S.; Verri, A.; Barla, A. A Supervised Learning Approach for Rainfall Detection From Underwater Noise Analysis. <i>IEEE Journal of Oceanic Engineering</i> 2021, 1–13, doi:10.1109/JOE.2021.3091769. Pensieri, S., Viti, F.; Moser, G.; Serpico, SB.; Maggiolo, L.; Pastorino, M.; Solarna, D.; Cambiaso, A.; Carraro, C.; Degano, C.; Mainenti, I.; Seghezze, S.; Bozzano, R. Evaluating LoRaWAN Connectivity in a Marine Scenario. <i>Journal of Marine Science and Engineering</i> 9 (11), 1218, doi:10.3390/jmse9111218. Patiris, D.L.; Pensieri, S.; Tsabaris, C.; Bozzano, R.; Androulakaki, E.G.; Anagnostou, M.N.; Alexakis, S. Rainfall Investigation by Means of Marine In Situ Gamma-Ray Spectrometry in Ligurian Sea, Mediterranean Sea, Italy. <i>Journal of Marine Science and Engineering</i> 2021, 9, 903, doi:10.3390/jmse9080903. Tintoré, J.; Pinardi, N.; Álvarez-Fanjul, E.; Aguiar, E.; Álvarez-Berastegui, D.; Bajo, M.; Balbin, R.; Bozzano, R.; Nardelli, B.B.; Cardin, V.; et al. Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. <i>Front. Mar. Sci.</i> 2019, 6, doi:10.3389/fmars.2019.00568. Pensieri, S.; Patiris, D.; Alexakis, S.; Anagnostou, M.N.; Prospathopoulos, A.; Tsabaris, C.; Bozzano, R. Integration of Underwater Radioactivity and Acoustic Sensors into an Open Sea Near Real-Time Multi-Parametric Observation System. <i>Sensors</i> 2018, 18, 2737, doi:10.3390/s18082737. Pensieri, S.; Bozzano, R.; Nystuen, J.A.; Anagnostou, E.N.; Anagnostou, M.N.; Bechini, R. Underwater Acoustic Measurements to Estimate Wind and Rainfall in the Mediterranean Sea. <i>Advances in Meteorology</i> 2015, doi:10.1155/2015/612512. Pensieri, S.; Bozzano, R. Active and Passive Acoustic Methods for In-Situ Monitoring of the Ocean Status. <i>Advances in Underwater Acoustics</i> 2017, doi:10.5772/intechopen.68998.
Collaborations	<p>Prof. Dorian Cazau, Sorbonne Université - UPMC École doctorale Sciences Mécaniques, Acoustique, Electronique et Robotique de Paris (SMAER) – Machine learning algorithms for acoustic data processing.</p> <p>Dr. Manos Anagnostou, Institute of Oceanography (Hellenic Centre for Marine Research, Athens, Greece) - Underwater sound and radon measurements of rainfall and wind at sea.</p> <p>Dr. Jeff Nystuen, Applied Physics Laboratory (University of Washington, Seattle, USA) – Underwater ambient sound analysis.</p> <p>Dr. George Petihakis, Institute of Inland Waters (Hellenic Centre for Marine Research, Heraklion, Crete, Greece) - Standardization of bio-geochemical sensors for the marine environment monitoring.</p>

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Genova, 15.06.2022

Signature