

PERSONAL INFORMATION

Roberto Bozzano



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🇮🇹 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

2001 - 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.
- Principal investigator of the W1M3A marine observatory.

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WoS Researcher ID: AAL-8735-2021

1996 - 2001 National Research Council – Institute for Naval Automation, Genoa, Italy.

- Research fellowship

1993-1996 University of Genoa, Department of Biophysical and Electronic Engineering (DIBE), Genoa, Italy.

- Research fellowship

EDUCATION AND TRAINING

1987 - 1993 Degree in Electronic Engineering *EQF level 7*
University of Genoa, Department of Biophysical and Electronic Engineering (DIBE), Genoa, Italy

- Image processing, pattern recognition, machine learning.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English

Technology Transfer skills Development of technologies for operational oceanography. Development of algorithms based on pattern recognition and machine learning techniques for smarter environmental monitoring instruments. Development of data acquisition system for environmental parameters. Development of geolocation algorithms for IoT sensors.

Project Management skills Manager 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 FPGA controllers, programming in Labview, Matlab, Python languages. Outreach activities at the “Festival della Scienza” and “Festival del Mare”, Genoa, Italy.

ADDITIONAL INFORMATION

- Projects
- 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
1. Trucco, A.; Bozzano, R.; Fava, E.; Pensieri, S.; Verri, A.; Barla, A. A Supervised Learning Approach for Rainfall Detection From Underwater Noise Analysis. *IEEE Journal of Oceanic Engineering* 2021, 1–13, doi:10.1109/JOE.2021.3091769.
 2. Ursella, L.; Pensieri, S.; Pallàs-Sanz, E.; Herzka, S.Z.; Bozzano, R.; Tenreiro, M.; Cardin, V.; Candela, J.; Sheinbaum, J. Diel, Lunar and Seasonal Vertical Migration in the Deep Western Gulf of Mexico Evidenced from a Long-Term Data Series of Acoustic Backscatter. *Progress in Oceanography* 2021, 195, 102562, doi:10.1016/j.pocean.2021.102562.
 3. 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. *Journal of Marine Science and Engineering* 2021, 9, 903, doi:10.3390/jmse9080903.
 4. Liberti, G.L.; D'Alimonte, D.; di Sarra, A.; Mazeran, C.; Voss, K.; Yarbrough, M.; Bozzano, R.; Cavaleri, L.; Colella, S.; Cesarini, C.; et al. European Radiometry Buoy and Infrastructure (EURYBIA): A Contribution to the Design of the European Copernicus Infrastructure for Ocean Colour System Vicarious Calibration. *Remote Sensing* 2020, 12, 1178, doi:10.3390/rs12071178.
 5. 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. *Front. Mar. Sci.* 2019, 6, doi:10.3389/fmars.2019.00568.
 6. Pearlman, J.; Bushnell, M.; Coppola, L.; Karstensen, J.; Buttigieg, P.L.; Pearlman, F.; Simpson, P.; Barbier, M.; Muller-Karger, F.E.; Munoz-Mas, C.; et al. Evolving and Sustaining Ocean Best Practices and Standards for the Next Decade. *Front. Mar. Sci.* 2019, 6, doi:10.3389/fmars.2019.00277.
 7. 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. *Sensors* 2018, 18, 2737, doi:10.3390/s18082737.
 8. 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. *Advances in Meteorology* 2015, doi:10.1155/2015/612512.
 9. Pensieri, S.; Bozzano, R. Active and Passive Acoustic Methods for In-Situ Monitoring of the Ocean Status. *Advances in Underwater Acoustics* 2017, doi:10.5772/intechopen.68998.
 10. Picco, P.; Schiano, M.E.; Pensieri, S.; Bozzano, R. Time-Frequency Analysis of Migrating Zooplankton in the Terra Nova Bay Polynya (Ross Sea, Antarctica). *Journal of Marine Systems* 2017, 166, 172–183, doi:10.1016/j.jmarsys.2016.07.010.

- Collaborations
- Prof. Dorian Cazau, Sorbonne Université - UPMC · École doctorale Sciences Mécaniques, Acoustique, Electronique et Robotique de Paris (SMAER) – Machine learning algorithms for acoustic data processing.
- Prof. Marios Anagnostou, University of West Macedonia, Department of Environmental Engineering – Underwater acoustic data processing and development of smart sensors for detecting and quantifying geophysical sound sources.
- Dr. Christos Tsabaris, Institute of Oceanography, Hellenic Centre for Marine Research – Medium resolution radioactivity systems for radioactivity measurements in the oceans.

I declare that I didn't the opportunity to attend any “Valore PA” course before.

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, 11.02.2025