

Curriculum Vitae

(As of July 2021)

Name	Laura Beranzoli
Current job position	Dirigente Tecnologo presso Istituto Nazionale di Geofisica e Vulcanologia (INGV) - ITALY https://orcid.org/0000-0002-2273-3593
Address and phone number	<i>Istituto Nazionale di Geofisica e Vulcanologia</i> <i>Sezione Roma-2</i> <i>UF GOA - Ricerche multidisciplinari sulle interazioni Geosfera-Oceano-Atmosfera</i> <i>Via di Vigna Murata 605</i> <i>00143 Roma, ITALIA</i> <i>Office: +39-06-51860418</i> <i>Mobile: +39-3427321092</i>
Short CV	
	<p>Graduated in Physics with a specialization in geophysics at Università degli Studi di Roma 'La Sapienza', she is currently Senior Technology Research Director at INGV (www.ingv.it). In the mid-90s she helped to start a new research area aimed at the geophysical observation of the seabed. Her main fields of interest are: ocean noise, local seismicity, slow seafloor displacements in shallow water, interactions between seismic activity, fluid emission and deep ocean circulation on a local scale.</p> <p>Since 1995 she has been constantly involved in international projects, mainly European programs, and in national projects for the installation and operation of multi-parameter observatories of the seabed, and for the study of geophysical time series acquired in the Mediterranean, in the North-eastern Atlantic and in the Antarctic area by GEOSTAR type observatories (http://www.moist.it). Since 2007 she has contributed to the affirmation of Italian leadership in the context of the establishment of the pan-European research infrastructure EMSO (www.emso-eu.org, included in the ESFRI Roadmap since 2006) and, in 2016, of the establishment of the ERIC consortium.</p> <p>She performed as Project Reviewer of EC funded projects in FP7.</p> <p>She is currently involved in the governance organization of EMSO ERIC. She is a member of the Central Management Office of EMSO ERIC, an organizational structure supporting the Director General of the ERIC, with the role of Science Officer and secretary of the Executive Committee of EMSO ERIC. In this capacity, she contributes to the organization of the ERIC EMSO consortium and to the start-up phase of services to scientific, institutional and industrial users.</p> <p>She is one of the promoters of the EMSO-Italia Joint Research Unit (JRU) which associates and coordinates the Italian public research institutions involved in participating in EMSO activities; she is currently part of the JRU secretariat.</p>
Current Job Position	
2003 - present	Technology Director at INGV
1992 - 2003	Researcher, permanent position
1988 - 1992	Researcher, term contract

Assignments	
2022 - 2025	Responsabile Scientifico del progetto PNRR ITINERIS – <i>Italian Integrated Environmental Research Infrastrucure System</i> , (durata nov. 2022-apr. 2025)
2018 - present	INGV Representative in the Governing Council of the Italian National Technology Cluster BIG-Blue Italian Growth (association of Italian public research institutions, SMEs, and industries) for the sector of Marine and Maritime Research Infrastructures and Technology Transfer.
2019	COMPONENTE del Comitato di Selezione per la valutazione comparativa dei curricula scientifici e professionali dei candidati alla nomina di Direttori di Dipartimento Ambiente INGV, Decreto del Presidente n 104/2019, AOO INGV Prot. Generale U n. 0009553 del 27/06/2019
2015 - present	Coordinator of statutory high-relevance activities of INGV related to the participation in the European research infrastructure EMSO ERIC.
2016-2019	Head of Unit SIAM - Integrated Systems for Marine Environmental Infrastructures, INGV-Division Roma 2.
2013 - 2016	Head of Unit RIDGE – Inter-Disciplinary GEomarine Research, INGV Division Roma 2.
Professional experience	
STRATEGIC ACTIVITY PLANNING	
2013 – present	<ul style="list-style-type: none"> i. Scientific and technological research strategic objectives and actions in the Unit’s disciplinary sectors. ii. Analysis and evaluation of national, European and global initiatives to improve the inclusion and recognition of the activities of the U.F. in the context of national and international research. iii. Scouting, development and follow-up of partnering with R&I national and international bodies and institutions.
COORDINATION	
2013 - present	<ul style="list-style-type: none"> i. design, planning, implementation and coordination of scientific and technological research activities with regard to geophysical seabed monitoring carried out by means of submarine multiparameter observatories; ii. design, planning and coordination of long-term geophysical monitoring experiments with multi-parameter seafloor observatories iii. coordination of activities in national and European projects.
INGV STATUTORY ACTIVITIES WITH HIGH INTERNATIONAL RELEVANCE	
2017 – present	Staff in-kind dell’INGV a EMSO ERIC (www.emso.eu) appointed as <i>Science Officer</i> in the Central Management Office (CMO), which supports the EMSO Consortium Director General, and tasked with coordination and monitoring of the scientific activities of the <i>Science Service Group</i> . Liaison with the ERIC Host Organisation (INGV) for institutional relations, and DG’s internal advisor for the ERIC organisation shaping and management. In 2020 she performed as Deputy DG.
2016 – March 2020 and January 2021 - present	Advisor of the Italian Delegate in EMSO ERIC Assembly of Members (the Assembly is the highest decisional body of the Consortium Governance).
2016 - present	Participation to the Expert Working Group on the Italy-based ERICs regulatory framework as per Italian Ministry of Research and University initiative.
2011 -2016	Participation to the Preparatory Phase of EMSO ERIC establishment (design, planning, action development, Statutes, Implementing Rules, Science and Technology plan drafting).

	Member of the EMSO ERIC <i>Interim Support Team (Interim Office)</i> , developing the transition of the scientific partnership toward the ERIC legal establishment and performing the basic management ERIC functions.
2015 - present	Support to the constitution of the Joint Research Unit (JRU) EMSO Italia charged with coordinating the Italian participation in EMSO ERIC under the leadership of INGV. Italian research institutes CNR, CONISMA, ENEA, INFN, ISPRA, OGS, the Zoological Station of Naples and the Hydrographic Institute of the Italian Navy are members of the JRU. Since 2018, she is member of the JRU Secretariat and is key-person for the subscription of agreements between INGV and the JRU members in the framework of the Italian participation in EMSO ERIC.
PARTICIPATION TO R&I PROJECTS	
2007 - present	<p><i>a) EC funded projects</i></p> <ul style="list-style-type: none"> - SBEP- Sustainable Blue Economy Partnership (2022- in corso) – partecipazione alle attività e membro INGV della General Assembly- https://bluepartnership.eu/ - Geolnquire (dal 2022, in corso) – Partecipazione alle attività di progetto, https://www.epos-eu.org/geo-inquire - EMSO Link (dal 2016 - 2020) - Participation to proj. activities, http://www.emso-eu.org/site/news-events/item/372-emso-link-has-kicked-off.html - COOPLUS (dal 2016, 2018) – Participation to proj. activities http://www.coop-plus.eu/ - EMSODEV(dal 2015 - 2019) – Participation to proj. activities, http://www.emsodev.eu/ - ENVRI Plus (dal 2014 - 2019) – Principal Investigator for INGV, Task Leader, and member of the <i>Board of European Environmental Research Infrastructure</i> (BEERI) established in the project for coordinating the EU Environmental Research Infrastructures, http://www.envriplus.eu - COOPEUS (2012-2014) - WP Leader, https://www.coopeus.eu/ - FIXO3 (2013 – 2017) - Participation to proj. activities, Member of the General Assembly of the Partners, http://www.fixo3.eu/ - ENVRI (2012 – 2014) – Participation to proj. activities - EMSO Preparatory Phase (2008-2011) – member of the coordination team - ESONET Network of Excellence (2007-2011)– WP Leader - ESONET CSA (2002-2004) – Participation to proj. activities - NEAREST (2006 – 2010) – WP Leader - Orion Geostar 3 (2002-2005) – member of the coordination team - Assem (2002 – 2004)- Participation to proj. activities - Geostar 2 (1998 – 2001) – Member of the coordination Team - Geostar (1995-1998) – Member of the Coordination Team - <p><i>b) Italian national projects</i></p> <ul style="list-style-type: none"> - <i>Progetto Obiettivo Nazionale InSea</i> (2019, in corso) – Participation to proj. activities of the WP1 - <i>Progetto Obiettivo Nazionale EMSO-MedIT</i> (2013 – 2016) – Leader of the Capacity Building Activity (<i>Progetto di Formazione</i>) which was part of the project (development of the public selection for trainees and trainees courses programs, organisation and development of the trainees’ final

	<p>test).</p> <ul style="list-style-type: none"> - Flagship project RITMARE (2015 – 2019) – Participation to proj. activities - <i>Design and construction of a submarine seismic monitoring and alarm network in areas highly exposed to seismic risk - Construction of a first node in Eastern Sicily (SN-1) – (2000 - 2002) Project Coordinator.</i>
S&T RESEARCH ACTIVITY	
2008 - present	Analysis of geophysical signals acquired by observatories and multiparametric seabed monitoring modules with particular reference to seismic signals and water column pressure signals, for studies of seabed deformation and propagation of pressure waves and seismic waves in the marine environment .
1994 - 2017	Setting up seabed observatories (preliminary design and selection of sensors for geophysics and oceanography measurements and operation mode); organization of preparatory oceanographic campaigns; analysis of seismological data and study of background seismic noise; data analysis with a multiparametric approach for the multidisciplinary interpretation of the observed phenomena; procedures for the data quality control.
Education background	
1986	Degree in Physics at Università degli Studi di Roma 'La Sapienza'.

Recent JCR papers

- [1] Sgroi T, Polonia A, Beranzoli L, Billi A, Bosman A, Costanza A, Cuffaro M, D’Anna G, De Caro M, Di Nezza M, Fertitta G, Frugoni F, Gasperini L, Monna S, Montuori C, Petracchini L, Petricca P, Pinzi S, Ursino A and Doglioni C (2021) One Year of Seismicity Recorded Through Ocean Bottom Seismometers Illuminates Active Tectonic Structures in the Ionian Sea (Central Mediterranean). *Front. Earth Sci.* 9:661311. doi: 10.3389/feart.2021.661311.
- [2] Lo Bue N., M.M.R. Best, D. Embriaco, D. Abeyirigunawardena, L. Beranzoli , R. K. Dewey, P. Favali, M. Feng, M. Heesemann, U. Leijala, D. Ó’Conchubhair, M. Scherwath, E. Scoccimarro and T. Wernberg, *The Importance of Marine Research Infrastructures in Capturing Processes and Impacts of Extreme Events*, *Front. Mar. Sci.* 8:62666, 2021, doi: 10.3389/fmars.2021.626668
- [3] De Martino, P., S. Guardato, G. P. Donnarumma, M. Dolce, T. Trombetti, F. Chierici, G. Macedonio, L. Beranzoli, G. Iannaccone, *Four years of continuous seafloor displacement measurements in the Campi Flegrei caldera*, *Frontiers in Earth Science, Solid Earth Geophysics*, 2020, in press.
- [4] Iannaccone, G., G. Pucciarelli, S. Guardato, G. P. Donnarumma, G. Macedonio, L. Beranzoli, *When the Hydrophone Works as an Accelerometer* , *SRL*, 2020, <https://doi.org/10.1785/0220200129>.
- [5] De Caro, Mariagrazia; Montuori, Caterina; Frugoni, Francesco; Monna, Stephen; Cammarano, Fabio; Beranzoli, Laura; T Phases Observed at the Ionian Seafloor: Seismic Source and Bathymetric Effects, *SRL*, 2020, <https://doi.org/10.1785/0220200096>.
- [6] Dañoibeitia, Juan Jose; Pouliquen, Sylvie; Johannessen, Truls; Basset, Alberto; Cannat, Mathilde; Pfeil, Benjamin Gerrit; Fredella, Maria Incononata; Materia, Paola; Gourcuff, Claire; Magnifico, Giuseppe; *Toward a comprehensive and integrated strategy of the European marine research infrastructures for ocean observations*, *Frontiers in Marine Science*, 7,180, 2020, *Frontiers*.
- [7] Andrea Billi*,1, Marco Cuffaro1, Laura Beranzoli2, Sabina Bigi3, Alessandro Bosman1, Cinzia Caruso4,

- Alessia Conti³, Andrea Corbo⁴, Antonio Costanza⁵, Giuseppe D'Anna⁵, Mariagrazia De Caro², Carlo Doglioni^{2,3}, Davide Embriaco⁶, Gioacchino Fertitta⁵, Francesco Frugoni², Luca Gasperini⁷, Francesco Italiano⁴, Gianluca Lazzaro⁴, Marco Ligi⁷, Eleonora Martorelli¹, Stephen Monna², Caterina Montuori², Alessandra Nigrelli⁴, Giuseppe Passafiume⁴, Lorenzo Petracchini¹, Patrizio Petricca³, Alina Polonia⁷, Giampaolo Proietti³, Livio Ruggiero³, Tiziana Sgroi², Maria Chiara Tartarello, *The SEISMOFAULTS project: first surveys and preliminary results for the Ionian Sea area, southern Italy*, ANNALS OF GEOPHYSICS, 63, 3, SE326, **2020**; doi:10.4401/ag-8171
- [8] Gutscher, Marc-André; Royer, Jean-Yves; Graindorge, David; Murphy, Shane; Klingelhoefer, Frauke; Aiken, Chastity; Cattaneo, Antonio; Barreca, Giovanni; Quetel, Lionel; Riccobene, Giorgio; *Fiber optic monitoring of active faults at the seafloor: I the FOCUS project*, Photoniques,32-37,**2019**,EDP Sciences.
- [9] Iannaccone, Giovanni; Guardato, Sergio; Donnarumma, Gian Paolo; De Martino, Prospero; Dolce, Mario; Macedonio, Giovanni; Chierici, Francesco; Beranzoli, Laura; *Measurement of seafloor deformation in the marine sector of the Campi Flegrei caldera (Italy)*, Journal of Geophysical Research: Solid Earth,123,1,66-83,**2018**.
- [10]Riccobene, Giorgio; Caruso, Francesco; Viola, Salvatore; Simeone, Francesco; Pulvirenti, Sara; Sciacca, Virginia; Pellegrino, Carmelo; Speziale, Fabrizio; Ameli, Fabrizio; Buscaino, Giuseppa; *Status and results from cabled hydrophones arrays deployed in deep sea off East Sicily (EMSO-ERIC node)*, The Journal of the Acoustical Society of America,141,5,3531-3531, **2017**, Acoustical Society of America.
- [11]S. Viola , R. Grammauta, V. Sciacca, c, d, G. Bellia, **L. Beranzoli**, G. Buscaino, F. Caruso, F. Chierici, G. Cuttone, A. D'Amico, V. De Luca, D. Embriaco, P. Favali, G. Giovanetti, G. Marinaro, S. Mazzola, F. Filiciotto, G. Pavan, C. Pellegrino, S. Pulvirenti, F. Simeone, F. Speziale, G. Riccobene, *Continuous monitoring of noise levels in the Gulf of Catania (Ionian Sea). Study of correlation with ship traffic*, Marine Pollution Bulletin, **2017**, <https://doi.org/10.1016/j.marpolbul.2017.05.040>
- [12]Francesco Chierici, Giovanni Iannaccone, Luca Pignagnoli, Sergio Guardato, Marina Locritani, Davide Embriaco, Gian Paolo Donnarumma, Mel Rodgers, Rocco Malservisi, **Laura Beranzoli**, *A new method to assess long-term sea-bottom vertical displacement in shallow water using a bottom pressure sensor: Application to Campi Flegrei, Southern Italy*, Journal of Geophysical Research: Solid Earth, **2016**, Vol. 121, Num.11, 7775-7789.
- [13]Mairi MR Best, Paolo Favali, **Laura Beranzoli**, Jérôme Blandin, Namik M Çağatay, Mathilde Cannat, Juan José Dañobeitia, Eric Delory, Jorge De Miranda, Fernandez Del Rio, Henko De Stigter, Mick Gillooly, Fiona Grant, Per OJ Hall, Susan Hartman, Joaquin Hernandez-Brito, Nadine Lanteri, Juergen Mienert, Gheorge Oaie, Jaume Piera, Vlad Radulescu, Jean-Francois Rolin, Henry A Ruhl, Christoph Waldmann, *The EMSO-ERIC Pan-European Consortium: data benefits and lessons learned as the legal entity forms*, Marine Technology Society Journal, **2016**, Vol. 50, Num. 3, 8-15.
- [14]Gabriele Giovanetti, Stephen Monna, Nadia Lo Bue, Davide Embriaco, Francesco Frugoni, Giuditta Marinaro, Mariagrazia De Caro, Tiziana Sgroi, Caterina Montuori, Angelo De Santis, Gianfranco Cianchini, **Laura Beranzoli**, Paolo Favali, 2016, *Observing Volcanoes from the Seafloor in the Central Mediterranean Area*, Remote Sens. **2016**, 8(4), 298; doi:10.3390/rs8040298.
- [15]Virginia Sciacca , Francesco Caruso, **Laura Beranzoli**, Francesco Chierici, Emilio De Domenico, Davide Embriaco, Paolo Favali, Gabriele Giovanetti, Giuseppina Larosa, Giuditta Marinaro, Elena Papale, Gianni Pavan, Carmelo Pellegrino, et Al., *Annual Acoustic Presence of Fin Whale (Balaenoptera physalus)*

- [16] Monna, S; Falcone, G; **Beranzoli, L**; Chierici, F; Cianchini, G; De Caro, M; De Santis, A; Embriaco, D; Frugoni, F; Marinaro, G; *Underwater geophysical monitoring for European Multidisciplinary Seafloor and water column Observatories*, Journal of Marine Systems, 130, 12-30, **2014**, Elsevier
- [17] Best, Mairi; Favali, Paolo; **Beranzoli, Laura**; Cannat, Mathilde; Cagatay, Namik; Dañobeitia, JJ; Delory, Eric; de Stigter, Henko; Ferre, Benedicte; Gillooly, Mick; *EMSO: A distributed infrastructure for addressing geohazards and global ocean change*, Oceanography, 27, 2, 167-169, **2014**,
- [18] De Caro, M; Monna, Stephen; Frugoni, F; **Beranzoli, Laura**; Favali, Paolo; *Seafloor Seismic Noise at Central Eastern Mediterranean Sites*, SRL, 85, 5, 1019-1033, **2014**, GeoScienceWorld
- [19] Paolo Favali ; Francesco Chierici ; Giuditta Marinaro ; Gabriele Giovanetti ; Adriano Azzarone ; **Laura Beranzoli** ; Angelo De Santis ; Davide Embriaco ; Stephen Monna ; Nadia Lo Bue ; Tiziana Sgroi ; Gianfranco Cianchini ; Lucio Badiali ; Enkelejda Qamili ; Maria Grazia De Caro ; Giuseppe Falcone ; Caterina Montuori ; Francesco Frugoni ; Giorgio Riccobene ; Mario Sedita ; Giovanni Barbagallo ; Giorgio Cacopardo ; Claudio Calì ; Rosanna Cocimano ; Rosa Coniglione ; Michele Costa ; Antonio D'Amico ; Francesco Del Tevere ; Carla Distefano ; Francesco Ferrera ; Valentina Giordano ; Massimo Imbesi ; Dario Lattuada ; Emilio Migneco ; Mario Musumeci ; Angelo Orlando ; Riccardo Papaleo ; Paolo Piattelli ; Guido Raia ; Alberto Rovelli ; Piera Sapienza ; Fabrizio Speciale ; Agata Trovato ; Salvatore Viola ; Fabrizio Ameli ; Maurizio Bonori ; Antonio Capone ; Rocco Masullo ; Francesco Simeone ; Luca Pignagnoli ; Nevio Zitellini ; Federico Bruni ; Francesco Gasparoni ; Gianni Pavan; *NEMO-SN1 Abyssal Cabled Observatory in the Western Ionian Sea*, IEEE Journal of Oceanic Engineering, **2013**, Volume: 38, Issue: 2, 358- 374, **DOI**: 10.1109/JOE.2012.2224536.

Roma 02.02.2023

Laura Beranzoli

