


PERSONAL INFORMATION




Riccardo Gerin

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STUDIES APPLIED FOR

Oceanography

WORK EXPERIENCE

From Apr 2023 - ongoing

Senior Technologist

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

- Coordinator of the Oceanographic Calibration and Metrology Center (CTMO).
- Experience:
 - Control and calibration of instrumentation: performance tests, operational assessments, comparisons between similar instruments.
 - Testing: evaluation of techniques and instrumentation, development of protocols, harmonisation of procedures, formulation of recommendations and Best Practice guidelines.
- Supervision of research activities:
 - Since Feb 2023, PI of the OpenMODs 3 project, funded by POGO (<https://www.pogo.org/>).
 - Since October 2022, Scientific tutor of the Postdoctoral Researcher dr. Gilda Savonitto.
- Participation to research project and experiments:
 - Sep May 2021, IPANEMA project (Implementation of the ECCSEL natural laboratory and the marine observatory in Panarea), funded by the PON - National Operational Program for Research and Innovation 2014-2020.

From May 2009 – Mar 2023

Researcher (till April 2014) – Technologist (from May 2014)

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

- Experience with oceanographic instrumentation:
 - drifters: deployment of the instruments; data elaboration and interpretation; optimization and generalization of the scripts for the decoding, editing and interpolation of the data; databases creation;
 - gliders: certified SeaGlider and Slocum Glider pilot; deployment/recovery, mission planning, piloting, ballasting and testing of Slocum Glider G1 and G2 version and of SeaGlider; data elaboration and interpretation; creation of a web interface (based on php, matlab and python) for the real-time control of the SeaGlider; generalization and optimization of the glider dynamical model (in collaboration with the Helmholtz-Zentrum, Geesthacht, Germany, funded by COST Action ES0904); delay mode thermal lag data correction;
 - floats: deployment of the instruments; mission programming and data recovery for the Arvor C floats;
 - wave buoy: set up, deployment and data elaboration and interpretation of a Datawell Waverider buoy

- Workshop experience: realization of a CODE-type drifter equipped with acoustic current meter and acoustic current profiler and of a low-cost CODE-type drifter;
- Technology transfer experience:
 - followed all the phases of the technology transfer of the GPS/GSM drifter realized by the OGS-TECDEV group to a local company located at the AREA Science Park of Trieste (interaction with the “technology transfer service” staff of the AREA in order to identify previous copyrights; interfaced with several companies; supervision of the realization of the drifter and tests of the instruments within the TOSCA -MED Program);
 - followed all the phases of the technology transfer of a low-cost CODE-type drifter to the MAXO molding company, Udine (interfaced with the company; supervision of the realization of the drifter and tests at sea; supervision of the realization of the second version of the drifter with increased autonomy and tests at sea);
- Paperwork experience: storage/inventory of the instruments not at sea; application for permissions to operate at sea; purchase of instrumentation; setup and maintenance of the Glider Laboratory; customs/export/import related documents; audit report for the TOSCA (Med Program), Cinel (ONR), Melmas (ONR), OpenMODs (POGO) projects;
- Supervision of research activities:
 - Since Feb 2023, PI of the OpenMODs 3 project, funded by POGO (<https://www.pogo.org/>).
 - Since October 2022, Scientific tutor of the Postdoctoral Researcher (dr. Gilda Savonitto).
 - Since May 2021 Coordinator of the Oceanographic Calibration and Metrology Center (CTMO).
 - 2020-2021: In charge of the WP4: Ocean dynamics and ice ocean interaction (data collection and numerical modeling) of the COLLAPS (Cook glacier-Ocean system, sea Level and Antarctic Past Stability) project - PNRA 2019.
 - Dec 2019-Dec 2022: PI of the OpenMODs 2.0 project, funded by POGO. Since Dec 2019, PI of the OpenMODs 2 project, funded by POGO (<https://www.pogo.org/>).
 - May 2018 – May 2019, co-PI of the OpenMODs project, funded by POGO (<https://www.pogo.org/>).
 - Sep 2017 – Sep 2019, technical coordinator for the MELMAS project; funded by ONR. In collaboration with HUJ (Israel).
 - April 2017 – Mar 2022, responsible for the OGS glider DAC (Data Assembly Center).
 - March 2017 – Mar 2022, member of the OceanGlider Data Management Task Team (OGDMTT).
 - May 2015 – Feb 2018, OGS coordinator and technical responsible for the CINEL project.
 - June 2012 – Jun 2019, in charge of the UO "A2" of the SP6-WP4 "Technology transfer" of the RITMARE Project.
 - Sep 2010 - Sep 2013, OGS coordinator and technical responsible for the TOSCA project.
 - July 2011 - March 2012, assistant supervisor of the graduate thesis Drifter prototipo dotato di profilatore acustico ADCP (Acoustic Doppler Current Profiler) - Andrea Pipino - Physics - University of Trieste - Italy.
 - October 2010 - July 2011, assistant supervisor of the graduate thesis Studio della circolazione marina superficiale nel Golfo di Trieste mediante l'uso di drifter - Francesco Pascoli - Physics - University of Trieste - Italy.
- Participation to research project and experiments:
 - Sep 2017 – Sep 2019, MELMAS project (Monitoring of the Eastern Levantine with Mobile Autonomous Systems).
 - 2015-2018, CINEL (Circulation and water masses studies in the Eastern Levantine with drifters, floats, gliders, models).
 - 2015, North Adriatic Sea Experiment (study of the Kvarner area with drifters, float and glider).
 - 2014, MEDESS4MS (Mediterranean Decision Support System for Marine Safety) - MED Program.
 - 2012-2017, RITMARE (National Research Programmes funded by the Italian Ministry of University and Research): SP5_WP5_AZ1_UO01, SP5_WP5_AZ2_UO02 and SP5_WP5_AZ3_UO01.
 - 2011-2014, GROOM (Glider for Research, Ocean Observation & Management), EU-FP7 project.

- 2011, MILONGA (Lagrangian measurements in the Tuscan Archipelago).
- 2010-2013, TOSCA (Tracking Oil Spills and Coastal Awareness Network, surface circulation and dispersion, technology transfer), MED Program.
- 2010, LIDEX10 (Ligurian dispersion experiment).
- 2009-2010, myOcean (operational oceanography).
- 2009, EYE (current circulation and water masses studies South of Cyprus).
- 2009, TYRRMOUNT09 (current circulation and water masses studies over a seamount in the Tyrrhenian Sea).
- 2008-2009, DORII (remote instrumentation infrastructure).
- 2009, SOS-Bocche di Bonifacio (surface circulation experiment).
- Oceanographic cruises:
 - MEDESS4MS exp; in collaboration with the Italian Coast Guard, CP567, 16-25 May 2014.
 - TOSCA exp, R/V Umberto d'Ancona, Gulf of Trieste, 18,19 and 22 October 2012.
 - TOSCA exp, R/V Valona, Gulf of Trieste, 23,25,26 and 27 April 2012.
 - MILONGA, R/V Capellini and R/V Poseidon, Tuscan Archipelago, 10,11 and 13 October 2011.
 - LIDEX10, R/V Maria Grazia, Ligurian Sea, 2-3 July 2010.
 - Pag-Konavle project, R/V BIOS, Adriatic Sea, 23 February - 1 March 2010.
 - TYRRMOUNT09, R/V Urania, Tyrrhenian Sea, 18 May - 3 June 2009.

From May 2005 – to Apr 2009

Post-doc researcher

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

- Experience with oceanographic instrumentation:
 - drifters: deployment of the instruments; data elaboration and interpretation; realization/improving of the scripts for the decoding, editing and interpolation of the data; web pages and databases creation and maintenance;
 - gliders: deployment/recovery, mission planning, piloting, ballasting, testing and batteries replacement of Slocum Glider G1 version; data elaboration and interpretation;
 - floats: deployment of the instruments;
 - radar: data elaboration and interpretation of the WERA HF radar data for the study of the surface currents;
- Supervision of research activity:
 - 2006. Assistant supervisor of the graduate thesis La trasparenza dell'acqua del Golfo di Trieste - Giulia Pignolo - Environmental Science - University of Trieste - Italy.
- Participation to research project and experiments:
 - 2008-2009 DORII (remote instrumentation infrastructure).
 - 2008-2009 TSS (current studies of the Turkish Strait System).
 - 2008 MREA08 (Maritime Rapid Environmental Assessment).
 - 2007 MREA07-LASIE07 (Maritime Rapid Environmental Assessment and Ligurian Air-Sea interaction experiment).
 - 2005-2007 EGYPT/EGITTO (Circulation of the Eastern Mediterranean Sea).
- Oceanographic cruises:
 - TSS09, R/V Alliance, Marmara Sea and Black Sea, 16-27 February 2009.
 - MREA08, R/V Amm. Magnaghi, Ligurian Sea, 30 September - 1 October and 20-23 October

2008.

- MREA07, R/V Leonardo, Ligurian Sea, 19-22 June 2007.
- EGYPT-1, R/V Poseidon, Southeastern Mediterranean, 8-26 April 2006.
- EGYPT-0, R/V L'Atalante, Southeastern Mediterranean, 26 January - 3 February 2006.
- EGITTO-1, R/V OGS-Explora, Southeastern Mediterranean, 11-18 November 2005.
- SC transect, R/V Hannibal, Sicily Channel, 6-9 September 2005.
- 6 transects, Sicily Channel, Sep 2005, Feb 2006, May 2006, Oct 2006, Jan 2007, Mar 2007.

From July – to October 2004

Collaborator

CREST – Physical and Engineering for Marine Environment, Trieste

- Comparison between weather forecast models (RAMS, WRF).

From November – to December
2004

Collaborator

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

- Experience with HF radar: feasibility study at the Veneto and Friuli Venezia Giulia coasts; installation of a CODAR radar system.

EDUCATION AND TRAINING

April 2005

PhD in Marine Environmental Science

University of Trieste (Italy)

- thesis title: “Ottica marina ed altre tecnologie avanzate applicate allo studio ambientale nell’Adriatico Settentrionale” under the supervision of Prof. F. Stravisi.
- Study of seawater optical and physical properties;
- Management of a weather forecast unit (MICROS system);
- Participation to the research project Interreg III (2002-2004) for the water masses studies in the Gulf of Trieste;
- 80 one-day oceanographic cruises in the Gulf of Trieste.

November 2001

Graduated in Physics

University of Trieste (Italy)

- thesis title: “ Ottica marina nel Golfo di Trieste ” under the supervision of Prof. F. Stravisi.
- Study of seawater optical and physical properties;
- 18 one-day oceanographic cruises in the Gulf of Trieste.

PERSONAL SKILLS

Mother tongue

Italian

Other language(s)

English

		UNDERSTANDING		SPEAKING		WRITING
		Listening	Reading	Spoken interaction	Spoken production	
		Proficient user	Proficient user	Independent user	Independent user	Independent user

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills

- operating systems:
 - proficient with Windows 98, ME, XP and seven; Mac Lion;
 - competent with Unix and DOS;
- languages:
 - extensive experience with Matlab;
 - good knowledge of html, Fortran, Latex, Arduino;
 - some knowledge of php, python.
- software:
 - good knowledge of Microsoft Office and Neo/Libre Office packages, Ocean Data View, Surfer, Grapher, Photoshop, Gimp, of the most common tools that allow to communicate to the instruments (e.g.: Teraterm, hyperterminal) , of the SSH/telnet client (e.g.: putty, WinSCP, Filezilla) and of the proprietary software for the management of the instruments/data (e.g.: Nortek, SeaBird, Wildlife, Datawell).

Other skills

- NASE Open Water Diver licence
- 2005: Attended to the first course for FIV (Italian sailing federation) referee
- From 2002 to 2005: national approved sailing boat RC model measurer
- From 2001 to 2009: organizer of several national and international sailing boat RC model regattas

Driving licence

- B

Publications in journals

- Menna M., Martellucci R., Notarstefano G., Mauri E., Gerin R., Pacciaroni M., Bussani A., Pirro A. and Poulain P.-M. (2022). Record-breaking high salinity in the South Adriatic Pit in 2020. *Copernicus Ocean State Report*, issue 6, *Journal of Operational Oceanography*, 15:sup1, 1-220, DOI: 10.1080/1755876X.2022.2095169
- Pirro A., Mauri E., Gerin R., Martellucci R. and Poulain P.-M. (2022). New insights on the formation and breaking mechanism of convective cyclonic cones in the South Adriatic Pit during winter 2018. *Journal of Physical Oceanography*, 52(9), 2049-2068. DOI: 10.1175/JPO-D-21-0108.1
- Menna M., Gacic M., Martellucci R., Notarstefano G., Fedele G., Mauri E., Gerin R. and Poulain P.-M. (2022). Climatic, decadal, and interannual variability in the upper layer of the Mediterranean Sea using remotely sensed and in-situ data. *Remote Sens.*, 14, 1322. <https://doi.org/10.3390/rs14061322>.
- Menna M., Gerin R., Notarstefano G., Mauri E., Bussani A., Pacciaroni M. and Poulain P.-M. (2021). On the circulation and thermohaline properties of the Eastern Mediterranean Sea. *Frontiers in Marine Science*. DOI: <https://doi.org/10.3389/fmars.2021.671469>.
- Mihanovic H., Vilibic I., Sepic J., Matic F., Ljubecic Z., Mauri E., Gerin R., Notarstefano G. and Poulain P.-M. (2021). Observation, preconditioning and recurrence of exceptionally high salinities in the Adriatic Sea. *Frontiers in Marine Science*. DOI: <https://doi.org/10.3389/fmars.2021.672210>
- Querin S., Cosoli S., Gerin R., Laurent C., Malacic V., Pristov N. and Poulain P.-M. (2021). Multi-platform, high-resolution study of a complex coastal system: the TOSCA experiment in the Gulf of Trieste. *Journal of Marine Science and Engineering*, 9(5), 469.
- Mauri E., Menna M., GariÄ† R., BatistiÄ† M., Libralato S., Notarstefano G., Martellucci R., Gerin R., Pirro A., Hure M. and Poulain P.-M. (2021). Recent changes of the salinity distribution and zooplankton community in the South Adriatic Sea. *Copernicus Marine Service Ocean State Report*, issue 5. *Journal of Operational Oceanography*. DOI: <https://doi.org/10.1080/1755876X.2021.1946240>.
- Marcelli M., Piermattei V., Gerin R., Brunetti F., Pietrosemoli E., Addo S., Boudaya L., Coleman R., Nubi O.A., Johannes R., Sarker S., Sohou Z., Zennaro M., Wiltshire K. and Crise A. (2021). Advancing toward the widespread application of low-cost technologies in coastal ocean observing (Ocean of Things). *Mediterranean Marine Science*, 22(2), 255-269. doi:<https://doi.org/10.12681/mms.25060>. Poulain P.-M., Mauri E., Gerin R., Chiggiato J., Schroeder K., Griffa A., Borghini M., Zambianchi E., Falco P., Testor P. and Mortier L. (2020). On the dynamics in the southeastern Ligurian Sea in summer 2010. *Continental Shelf Research* (196), 104083.
- Kokkini Z., Mauri E., Gerin R., Poulain P.-M., Simoncelli S., Notarstefano G. (2020). On the salinity structure in the South Adriatic as derived from float and glider observations in 2013-2016. *Deep-Sea Research Part II*, 171, 104625.
- Mauri E., Sitz L., Gerin R., Poulain P.-M., Hayes D., Gildor H. (2019). On the variability of the circulation and water mass properties in the eastern Levantine Sea. *Water* 2019, 11(9), 1741; doi:10.3390/w11091741.
- Menna M., Poulain P.-M., Ciani D., Doglioli A., Notarstefano G., Gerin R., Rio M.-H., Santoleri R., Gauci A., Drago A. (2019). New insights of the Sicily Channel and southern Tyrrhenian Sea variability. *Water* 2019, 11(7), 1355; doi:10.3390/w11071355.
- Poulain P.-M. and Gerin R. (2019). Assessment of the water-following capabilities of CODE drifters based on direct relative flow measurements. *Journal of Atmospheric and Oceanic Technology*, 36, 621-633.
- Kokkini Z., Notarstefano G., Poulain P.-M., Mauri E., Gerin R. and Simoncelli S. (2018). Unusual salinity pattern in the South Adriatic Sea. in Von Schuckmann K. (2018) *Copernicus Marine Service Ocean State Report*. *Journal of Operational Oceanography*, 11(1), 1-142.
- Gerin R., Zennaro M., Rainone M., Pietrosemoli E., Poulain P.-M. and Crise A. (2018). On the design of a sustainable ocean drifter for developing countries. *EAI Endorsed Transactions on Internet of Things*, 4(13), e5, 1-9.
- Poulain P.-M., Menna M. and Gerin R. (2018). Mapping Mediterranean tidal currents with surface drifters. *Deep-Sea Research Part I*, 138, 22-33.
- Enrile F., Besio G., Stocchino A., Magaldi M.G., Mantovani C., Cosoli S., Gerin R. and Poulain P.-M. (2018). Evaluation of surface Lagrangian transport barriers in the Gulf of Trieste. *Continental Shelf Research*, 167, 125–138.
- Mauri E., Gerin R. and Poulain P.-M. (2018). Glider measurements around the Vercelli Seamount (Tyrrhenian Sea) in May 2009. *Bollettino di Geofisica Teorica ed Applicata*, 59(2), 193-202.

- Menna M., Poulain P.-M., Bussani A. and Gerin R. (2018). Detecting the drogue presence of SVP drifters from wind slippage in the Mediterranean Sea. *Measurement*, 125, 447–453.
- Vilibić I., Mihanović H., Janeković I., Denamiel C., Poulain P.-M., Orlic M., Dunic N., Dadic V., Pasarić M., Muslim S., Gerin R., Matic F., Sepic J., Mauri E., Kokkini Z., Tudor M., Kovac Z. and Dzoic T. (2018). Wintertime dynamics in the coastal northeastern Adriatic Sea: the NAdEx 2015 experiment. *Ocean Science*, 14, 237–258.
- Mancero-Mosquera I., Poulain P.-M., Gerin R., Mauri E., Hayes D., Testor P. and Mortier L. (2017). Analysis of Frequency Content of Glider Data via Fourier and Wavelet Transforms. *Bollettino di Geofisica Teorica ed Applicata*, 58(2), 137-156.
- Kokkini Z., Gerin R., Poulain P.-M., Mauri E., Pasarić Z., Janeković I., Pasarić M., Mihanović H. and Vilibić H. (2017). A multiplatform investigation of Istrian Front dynamics (north Adriatic Sea) in winter 2015. *Mediterranean Marine Science*, 18/2, 344-354.
- Sorgente R., Tedesco C., Pessini F., De Dominicis M., Gerin R., Olita A., Fazioli L., Di Maio A. and Ribotti A. (2016). Forecast of drifter trajectories using a Rapid Environmental Assessment based on CTD observations. *Deep Sea Research Part II*, 133, 39–53.
- De Dominicis M., Bruciaferri D., Gerin R., Pinardi N., Poulain P.-M., Garreau P., Zodiatis G., Perivoliotis L., Fazioli L., Sorgente R. and Manganiello C. (2016). A multi-model assessment of the impact of currents, waves and wind in modelling surface drifters and oil spill. *Deep Sea Research Part II*, 133, 21–38.
- Mauri E., Gerin R. and Poulain P.-M. (2016). Measurements of water-mass properties with a glider in the South-western Adriatic Sea. *Journal of Operational Oceanography*, 9(1), 3-9.
- Bellomo L., Griffa A., Cosoli S., Falco P., Gerin R., Iermano I., Kalampokis A., Kokkini Z., Lana A., Magaldi M.G., Mamoutos I., Mantovani C., Marmain J., Potiris E., Sayol J.M., Barbin Y., Berta M., Borghini M., Bussani A., Corgnati L., Dagneaux Q., Gaggelli J., Guterman P., Mallarino D., Mazzoldi A., Molcard A., Orfila A., Poulain P.-M.; Quentin C., Tintoré J., Uttieri M., Vetrano A., Zambianchi E. and Zervakis V. (2015). Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience. *Journal of Operational Oceanography*, 8(2), 95-107.
- Gerin R., Kourafalou V., Poulain P.-M. and Besiktepe S. (2014). Influence of Dardanelles outflow induced thermal fronts and winds on drifter trajectories in the Aegean Sea. *Mediterranean Marine Science*, 15(2), 239-249.
- Gerin R., Poulain P.-M., Besiktepe S. and Zanasca P. (2013). Surface circulation of the Marmara Sea as deduced from drifters. *Turkish Journal of Earth Sciences*, 22(6), 919-930.
- Poulain P.-M., Bussani A., Gerin R., Jungwirth R., Mauri E., Menna M. and Notarstefano G. (2013). Mediterranean surface currents measured with drifters: From basin to subinertial scales. *Oceanography, Upper Ocean Processes: Peter Niiler's Contributions and Inspirations*, 26(1), 38-46.
- Poulain P.-M., Cardin V., Gerin R. and Brunetti F. (2012). Sistemi osservativi in Adriatico a supporto dell'oceanografia operativa / Observation Systems in the Adriatic for Supporting Operational Oceanography. "Oceanografia Operativa in Italia verso una gestione sostenibile del mare / Operational Oceanography in Italy toward a sustainable management of the sea", i quaderni di Arpa, Emilia Romagna, printed in 2012, 85-92.
- Kovacevic V., Manca B.B., Ursella L., Schröder K., Cozzi S., Burca M., Mauri E., Gerin R., Notarstefano G. and Deponte D. (2012). Water mass properties and dynamical conditions in the Eastern Mediterranean in June 2007. *Progress in Oceanography*, 104, 59-79.
- Schröder K., Chiggiato J., Haza A.C., Griffa A., Özgökmen T.M., Zanasca P., Molcard A., Borghini M., Poulain P.-M., Gerin R., Zambianchi E., Falco P. and Trees C. (2012). Targeted Lagrangian sampling of submesoscale dispersion at a coastal frontal zone. *Geophysical Research Letters*, 39, L11608, doi:10.1029/2012GL051879.
- Poulain P.-M., Gerin R., Rixen M., Zanasca P., Teixeira J., Griffa A., De Marte M. and Pinardi N. (2012). Aspects of the surface circulation in the Liguro-Provençal basin and Gulf of Lion as observed by satellite-tracked drifters (2007-2009) *Bollettino di Geofisica Teorica ed Applicata*, 53(2), 261-279.
- Chiggiato J., Jarosz E., Book J.W., Dykes J., Torrisi L., Poulain P.-M., Gerin R., Horstmann J. and Besiktepe S. (2012). Dynamics of the circulation in the Sea of Marmara: numerical modeling experiments and observations from the Turkish Straits System Experiment. *Ocean Dynamics*, 62, 139-159.
- Ribotti A., Borghini M., Schroeder K., Satta A., Sorgente B., Gerin R., Cucco A., Olita A., Fazioli L., Giovannini R., Sorgente R., 2011. Current Measurements in the Bonifacio Mouths and La

- Maddalena Archipelago: First Analyses. In: Marine Research at CNR. Ed.: Consiglio Nazionale delle Ricerche - Roma, pg. 891-902.
- Cosoli S., Gerin R. and Poulain P.-M. (2011). Il monitoraggio continuo dello stato del mare. *Rassegna Tecnica del Friuli Venezia Giulia*, 5/2011.
 - Medeot N., Nair R. and Gerin R. (2011). Laboratory evaluation and control of Slocum Glider C-T sensors. *J. Atmos. Oceanic Technol.*, 28, 838-846, doi: 10.1175/2011JTECHO767.1.
 - Schröder K., Haza A.C., Griffa A., Özgökmen T.M., Poulain P.-M., Gerin R., Peggion G. and Rixen M. (2011). Relative dispersion in the Liguro-Provençal basin: from sub-mesoscale to mesoscale. *Deep Sea Research Part I*, 58(3), 209-228.
 - Millot C. and Gerin R. (2010). The Mid-Mediterranean Jet Artefact. *Geophys. Res. Lett.*, 37, L12602, doi:10.1029/2010GL043359.
 - Gerin R., Poulain P.-M., Taupier-Letage I., Millot C., Ben Ismail S., Sammari C. (2009). Surface circulation in the Eastern Mediterranean using Lagrangian drifters (2005-2007). *Ocean Sci.*, 5, 559-574.
 - Salon, S., P.M. Poulain, E. Mauri, Gerin R., D. Adami and F. Davoli (2009). Remote oceanographic instrumentation integrated in a GRID environment. *Computational Methods in Science and Technology*, 15(1), 49-55.
 - Poulain P.-M., Gerin R., Mauri E. and Pennel R. (2009). Wind effects on drogued and undrogued drifters in the Eastern Mediterranean. *Journal of Atmospheric and Oceanic Technology*, 26, 1144-1156.
 - Lipizer M., Gerin R., Spoto M. and Mosetti R. (2007). Optical properties and light penetration in the waters of the Gulf of Trieste (north Adriatic Sea). *Bollettino di Geofisica Teorica ed Applicata*, vol. 48, n. 1, pp.65-78; March 2007.
 - Babbini L., Gerin R. and Vinzi E. (2006). Caratterizzazione idrologica della stazione Dosso di Santa Croce. in "Studio della produttività primaria e della produttività secondaria delle strutture artificiali sommerse poste in prossimità del dosso di S.Croce, Golfo di Trieste, Alto Adriatico" by Guido Bressan. Trieste, EUT, printed in 2006. ISBN 88-8303-189-X.

Datasets with DOI

- Ribotti A., Bussani A., Menna M., Satta A., Sorgente R., Cucco A., Gerin R. (2022). Mediterranean Lagrangian drifters data from 1998 to 2022. SEANOE. <https://doi.org/10.17882/90537>
- Gerin R., Bussani A., K uchler S., Zuppelli P. and Mauri E. (2021). OGS GLIDER MISSION COCONET Dataset. 10.13120/486d2b87-ce42-4632-8e8c-8a1a11272585
- Gerin R., Bussani A., K uchler S., Zuppelli P. and Mauri E. (2021). OGS GLIDER MISSION CONVEX14 Dataset. 10.13120/9f33003d-00d2-4e82-88b4-b1bb8ad4fc5b
- Gerin R., Bussani A., Kokkini Z., K uchler S., Zuppelli P. and Mauri E. (2021). OGS GLIDER MISSION Quarnero Dataset. 10.13120/e20f1fe1-73f5-442a-9baa-212682995a51
- Gerin R., Bussani A., Kokkini Z., K uchler S., Pacciaroni M., Zuppelli P. and Mauri E. (2021). OGS GLIDER MISSION preconconvex16 Dataset. 10.13120/354c6c0b-85b8-452b-bba1-209e92256027
- Gerin R., Bussani A., Kokkini Z., K uchler S., Pacciaroni M., Zuppelli P. and Mauri E. (2021). OGS GLIDER MISSION convex16 Dataset. 10.13120/1cd43eef-be72-4477-9213-3aaa9e2289ab
- Gerin R., Bussani A., Kokkini Z., K uchler S., Pacciaroni M., Zuppelli P. and Mauri E. (2021). OGS GLIDER MISSION Cinel16 Dataset. 10.13120/5df8c74c-d95b-4c31-b317-8c18154c1106
- Gerin R., Bussani A., Kokkini Z., K uchler S., Pacciaroni M., Zuppelli P. and Mauri E. (2021). OGS GLIDER MISSION preconconvex17 Dataset. 10.13120/85b38632-3903-42c0-b8d0-3783ac6b4204
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- Gerin R., Mauri E., Zuppelli P., Kuchler S., Poulain P.-M. and Bussani A. (2013). SeaGlider tests and missions during 2013. REL. OGS 2013/93 OCE 34 MAOS, Trieste, Italy, 21 pp.
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- Gerin R., Bussani A. and Poulain P.-M. (2013). The internally stored data of the Arvor C: how to extract them, higher profile resolution and some missing information. REL. OGS 2013/17 OCE 9 SIRE, Trieste, Italy, 12 pp.
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- Gerin R., Poulain P.-M., Bussani A., Brunetti F., Zervakis V., Kokkini Z., Malacic V. and Cermelj B. (2012). First TOSCA drifter experiment in the Gulf of Trieste (April 2012). REL. OGS 2012/91 OCE 6 SIRE, Trieste, Italy, 32 pp.
- Gerin R., Brunetti F. e Poulain P.-M. (2012). Drifter costiero CODE GPS/GSM: trasferimento tecnologico da OGS ad ELCON ed utilizzo dello strumento nell'ambito del progetto TOSCA. REL.

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- Gerin R. and Poulain P.-M. (2011). OGS prototype CODE drifter equipped with current meter and current profiler: realization and tests. REL. OGS 2011/109 OGA 34 SIRE, Trieste, Italy, 65 pp.
- Gerin R., Bussani A., Bolzon G. and Notarstefano G. (2011). Descrizione completa della procedura di elaborazione dei dati drifter su Oceano. REL. OGS 2011/63 OGA 24 SIRE, Trieste, Italy, 17 pp.
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- Gerin R., Bubbi A., Brunetti F., Mauri E., Medeot N., Nair R., Notarstefano G. and Poulain P.-M. (2009). Tyrrmount09 Glider Experiment: Setup, Mission and Preliminary Results. Rel.132/2009/OGA/27/SIRE, OGS, Trieste, Italy.
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- Borrione I., Gerin R. and Poulain P.-M. (2008). Description of the Mediterranean Drifter Program (MedSVP) as of May 2008. Rel. 76/2008/OGA/25, OGS, Trieste, Italy.
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- Gerin R. and Poulain P.-M. (2005). Hydrographic structures and circulation outline of the southeastern Mediterranean off the Egyptian coast. Rel. 42/2005/OGA/23, OGS, Trieste, Italy.
- Gerin R., F. Brunetti and Poulain P.-M. (2004). Studio di fattibilita' della tecnologia radar presso le coste del Veneto e del Friuli Venezia Giulia, Parte I. Rel. 52/2004/OGA/15, OGS, Trieste, Italy.
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- Gerin R. (2002). Dati radiometrici registrati nel Golfo di Trieste (luglio 2000 - maggio 2001). Rapporto 91, (02/4), Oceanografia e Meteorologia, Università degli studi di Trieste.

Talks, Posters and Seminars

- Cicle of seminars/lessons at Training module on OPENMODs – 10-14 July 2023, Helgoland, Germany.
- OpenMODs, talk at Low cost technology and data workshop - 2 June 2023, on-line event.
- Autonomous platforms for oceanographic data collection, lecture at 2022 Breaking the Surface, 14th International Interdisciplinary Field Workshop of Maritime Robotics and Applications - 25-30 September 2022, Biograd na Moru, Croatia.
- Low cost sensors to observe Oceans, seminar at Summer School - the Copernicus Marine Services as a supporting tool to foster Sustainable Blue Economy - 2-8 July 2022, Trieste, Italy.
- Control and calibration of instrumentation, fouling issues, seminar at Practical Introductory Course to marine monitoring Hardware and Procedures for less experienced users - 23 June 2022, Trieste, Italy.
- Strumentazione per il monitoraggio ambientale e attività del Centro di Taratura e Metrologia Oceanografico, talk at Convegno Tutela e Conservazione degli Ecosistemi Marini - 15 June 2022, Civitavecchia, Italy
- Monitoraggio ambientale con strumenti autonomi, seminar at Circolo Culturale Astrofili Trieste - 28 March 2022, l'Antico Caffè S. Marco, Trieste, Italy.
- Cicle of seminars/lessons at Training module on OPENMODs – 21-25 March 2022, online and at Helgoland, Germany.
- Update on the OpenMODs 2.0 Jamming Meeting and relevant instrument step forward, talk at 22nd POGO annual meeting - 25 January 2021, on-line event.
- OpenMODs platform, talk at OpenMODs 2.0 Jamming Meeting - 11 November 2020, on-line event.
- Preliminary results of the North Adriatic Sea Experiment: drifter, float and glider, talk at North Adriatic experiment workshop - 15 April 2016, OGS, Trieste, Italy.
- Drifter per la caratterizzazione del trasporto della macchia e della circolazione marina, waverider, prototipo CODE, talk at MEDESS4MS – Serious Game 1 Meeting - 5 December 2014, Bologna, Italy.
- OGS glider activity, talk at Workshop on glider CTD correction, 22-24 October 2013, Geesthacht, Germany.
- Review of "finalized" SCP4.1, talk at 6th TOSCA Meeting - 25-27 March 2013 La Spezia, Italy.
- Preliminary results of the first TOSCA experiment in the Gulf of Trieste (Apr '12) and details of the second upcoming experiment (Oct '12), talk at 5th TOSCA Meeting - 15-17 October 2012 Trieste, Italy.
- Experiment in the Gulf of Trieste: April 2012, talk at 4th TOSCA Meeting - 8-10 May 2012 Alexandroupolis, Greece.
- D4.1.1 Listing of the Means and D4.1.2 Network and sampling strategy, talk at 4th TOSCA Meeting - 8-10 May 2012 Alexandroupolis, Greece.
- Drifter experiment in the Tuscan Archipelago, poster at "COASTAL OBSERVING AND FORECASTING SYSTEMS, TODAY & TOMORROW" Workshop - 18-19 April 2012, Livorno, Italy.
- Contemporaneous observations of mesoscale and submesoscale processes with drifters and a glider, talk at 2012 Ocean Sciences Meeting - 20-24 February 2012, Salt Lake City, Utah, USA.
- OGS prototype CODE drifter equipped with current meter and current profiler: realization and tests, talk at 3rd TOSCA Meeting - 31 October-2 November 2011, Lesvos, Greece.
- CP3.2 Identification, provision and technical improvement, talk at 3rd TOSCA Meeting - 31 October-2 November 2011, Lesvos, Greece.
- The Ligurian Dispersion EXperiment 2010 (LIDEX10): drifter and glider preliminary results, talk at 5th EGO Meeting and Glider School - 14-18 March 2011, Gran Canaria, Spain.
- Surface Circulation in the Marmara Sea, poster at CIESM - 39th Congress, May 2010, Venice, Italy.
- Le Correnti Marine, seminar at MiramARIA, 12 November 2009, Miramare Castle, Trieste, Italy.
- Near-Surface Circulation in the Marmara Sea, talk at TSS'09 Meeting, 30 September - 2 October 2009, NATO Undersea Research Centre, La Spezia, Italy.
- Surface drifter measurements in the Mediterranean and Black Seas, poster at OceanObs'09, 21-25

September 2009, Venice, Italy.

- Near-Surface Circulation in the Marmara Sea, talk and poster at 4th LAPCOD Meeting, 7-11 September 2009, La Londe-les-Maures, France.
- Circolazione superficiale nel bacino orientale del Mediterraneo stimata dai dati drifter, seminar at OGS, 28 November 2008, OGS, Trieste, Italy.
- MREA08 Glider Experiment in the Ligurian Sea, seminar at OGS, 12 November 2008, OGS, Trieste, Italy.
- Glider Experiment in the Ligurian Sea as part of MREA08, talk at 3rd EGO Workshop, 27-29 October 2008, NATO Undersea Research Centre, La Spezia, Italy.
- Surface circulation in the Eastern Mediterranean using Lagrangian drifters, talk at Geoitalia 2007 - Sesto Forum Italiano di Scienze della Terra, 12-14 September 2007, Rimini, Italy.
- Surface circulation in the Eastern Mediterranean using Lagrangian drifters, talk at CIESM - 38th Congress, April 2007, Istanbul, Turkey.
- The EGYPT/EGITTO surface drifters, talk at EGYPT/EGITTO Observational Meeting, 9-10 October 2006, Trieste, Italy.

Schools, Courses, Meetings
and Workshops

- Online course “Come massimizzare l’impatto di una proposta collaborativa in Horizon Europe», 3 hours, 22 March 2023, APRE - Agenzia per la Promozione della Ricerca Europea, Trieste, Italy.
- Course on “Scrittura di proposte progettuali in Horizon Europe – corso base”, 7 hours, 13 and 15 March 2023, Area Science Park, Trieste, Italy.
- Course on metrology: “Dai punti fissi alle applicazioni ambientali e per il clima, le incertezze nelle misure di temperatura. Aspetti tecnici, problemi aperti e situazione internazionale”, 29 November 2022, OGS, Trieste, Italy, held by dr. Andrea Merlone (National Metrology Institute of Italy – INRIM).
- Kongsberg Seaglider Training Course, 20-29 August 2018, KUTI, Lynnwood, USA.
- Course on lithium-ion batteries, 8 hours, 21 May 2018, OGS Trieste, Italy.
- Online course of “Piano Formativo Anticorruzione 2017-2018”, 24 April 2018.
- Advanced course on Safety & Security in the Workplace, 8 hours, 9 November 2017, OGS Trieste, Italy.
- Course on Safety & Security in the Workplace, 4 hours, 28 September 2017, OGS Trieste, Italy.
- Technical Scientific English Course - advanced level, 28 hours, 18 March – 24 June 2015, AREA Science Park, Trieste, Italy.
- Online course of “Piano Formativo sull’Anticorruzione”, 13 January 2015.
- Slocum Glider Training Course, 11-14 November 2013, Teledyne Webb Research, Falmouth, Massachusetts, USA.
- Workshop on glider CTD correction, 22-24 October 2013, Geesthacht, Germany.
- iRobot Seaglider Training Course, 19-23 March 2012, University of Washington, Seattle, USA.
- 2012 Ocean Sciences Meeting, 20-24 February 2012, Salt Lake City, Utah, USA.
- Third TOSCA Meeting, 31 October-2 November 2011, Lesvos, Greece.
- Variazioni temporali e tendenze nelle caratteristiche meteorologiche ed oceanografiche dell’Adriatico settentrionale: la situazione nel Golfo di Trieste, 2-3 December 2010, Trieste, Italy.
- First TOSCA Meeting, 9-10 September 2010, Toulon, France.
- CIESM - 39th Congress, 10-14 May 2010, Venice, Italy.
- TSS’09 Meeting, 30 September - 2 October 2009, NATO Undersea Research Centre, La Spezia, Italy.
- OceanObs’09, 21-25 September 2009, Venice, Italy.
- 4th LAPCOD Meeting, 7-11 September 2009, La Londe-les-Maures, France.
- 2nd Euro-Argo Users’ Workshop, 15-17 June 2009, Trieste, Italy.
- 3rd EGO Workshop, 27-29 October 2008, NATO Undersea Research Centre, La Spezia, Italy.
- 2nd EGO Workshop “Glider School”, 29-31 October 2007, Calanova, Mallorca, Spain.
- Geitalia 2007 - Sesto Forum Italiano di Scienze della Terra, 12-14 September 2007, Rimini, Italy.
- ICTP Advanced School on Oceanography (ASO) “World Climate and Overturning Circulation in Oceans and Mediterranean Seas”, 30 April-11 May 2007, Miramare, Trieste, Italy.
- CIESM - 38th Congress, 9-14 April 2007, Istanbul, Turkey.
- EGYPT/EGITTO Observational Meeting, 9-10 October 2006, Trieste, Italy.
- ADRICOSM-EXT: IOC Data Management and APAT Sea Level Data Management Training courses, 29-31 March 2006, Miramare, Trieste, Italy.
- Second Argo Science Workshop, 15-18 March 2006, Venice, Italy.
- Second EGITTO/EGYPT meeting, 12-13 September 2005, Tunis, Tunisia.
- International Conference “Scientific and policy challenges towards an effective management of the marine environment in support of regional sustainable development. Emphasis on the Black Sea and the Mediterranean regions”, 13-18 October 2003, Varna, Bulgaria.
- Course on climate variability studies in the ocean “tracing and modelling the ocean variability”, 16-27

June 2003, Miramare, Trieste, Italy.

- First workshop on Marine Protected areas: Monitoring techniques applied to Marine Protected Areas management, 19 - 20 September 2002, Miramare, Trieste, Italy.

Research Stay

- Helmholtz-Zentrum, Geesthacht, Germany, 21-31 October 2013, funded by COST Action ES0904.
- LOB - CNRS, Toulon, France, 13-19 December 2008, under the grant 'Galileo' of the Italian-French University.
- LOB - CNRS, Toulon, France, 3-17 February 2008, funded by 'EUR-OCEANS, European Network of Excellence for Ocean Ecosystems Analysis'.

Teaching experiences

- Since September 2019, in charge of the course of Oceanography for the master degree course of Geoscience at the University of Trieste
- March 2019, lectures (master in Robotics) at the University of Trieste (Italy).
- May 2011, lectures (course of Oceanography) at the University of Trieste (Italy).
- April 2010, lectures (course of Oceanography) at the University of Trieste (Italy).
- June 2008, A-levels examiner at the Istituto Statale di Istruzione Superiore Nautico, Trieste, Italy.
- From February 2002 to June 2005, teacher (courses of Mathematics, Physics and Geometry) at the IAL (tertiary school), Trieste, Italy.

Awards

- May 2002. Premio di laurea "IRENE GALANTE". University of Trieste (Italy)

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

