

## WORK EXPERIENCE

- 06/06/2016–Present **Public administration middle manager**  
Italian Hydrographic Institute, Genova (Italy)  
Head of the Physical Oceanography Section
- 01/11/2010–05/06/2016 **Public administration middle manager**  
Italian Hydrographic Institute, Genova (Italy)  
Head of Oceanographic Studies Unit
- 01/08/2008–31/10/2010 **Public administration middle manager**  
Italian Hydrographic Institute, Genova (Italy)  
Military Oceanography Section
- 01/04/2006–31/07/2008 **Public administration middle manager**  
NESC - Naval Experimentation and Support Centre (IT Navy), La Spezia (Italy)  
Head of Technological Section at the Institute of Explosive Chemistry;  
Head of Welding Section at the Institute of Technology;  
Head of Technological Unit at Technological-Metallographic-Chemical Laboratory.
- 01/09/2000–31/03/2006 **ICT Project manager e System analyst**  
Gruppo SIGLA Srl, Genova (Italy)  
Customer Relationship Management / Sales Force Automation software analyst;  
IT Service Management software analyst;  
Oracle Database Administrator;

## EDUCATION AND TRAINING

- 15/04/2000 **Master's degree in Physics** EQF level 7  
Università degli Studi di Genova, Genova (Italy)  
Thesis: "Equality of the Shapiro steps of two Josephson junctions"  
Final mark: 110/110 (magna cum laude)
- 1994 **Scientific high school degree** EQF level 4  
Cristoforo Colombo High School, Genova (Italy)

## PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
	2019 - Inlingua – Level C1.7 2018 - Wall Street English - Level 15 2017 - Wall Street English - Level 14 2009 - Wall Street Institute - Intermediate Level				
French	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills** Good communication skills gained through the conferences and congresses I attended, as well as the teaching activities to students from all over the world in a multi-cultural environment;  
 good negotiation skill acquired through the customers interactions during my experience as project manager.

**Organisational / managerial skills** Leadership (responsible for team up to 15 people);  
 good coordination skills between different business units

**Job-related skills** physical laboratory activities, control systems, cryogenics, radiofrequency;  
 database administration, IT Service Management, web application;  
 mechanical tests on materials, metallography, scanning electron microscopy;  
 physical oceanography, numerical modelling, geographic information system, remote sensing;  
 technical military standards (STANAG/MIL/NAV) preparation, editing, and approval;  
 activity report writing;

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Programming languages: Fortran, C++, Java, PL-SQL, HTML, ASP, DOS batch, Matlab

Operating systems: MS-Windows 9x/NT/2000/XP/2003/2008/Vista/7/8/10, Linux, MS-DOS, Mac-OS.

Softwares: Microsoft Office Suite, Microsoft Sharepoint, Microsoft Project, OpenOffice, TOAD, JBuilder, Microsoft VC++, LabView, ANSYS, DHI MIKE 3, Matlab, ArcGIS, Global Mapper, CARIS, Panoply, Ocean Data View.

Database: Oracle, MS SQL Server, MS Access.

- Projects**
- 2007  
National Institute for Nuclear Physics  
"Feasibility study for an intelligent integrated system for decision support to the treatment of diseases characterized by iron overload": study of the magnetic signal of the human body according to the geometric characteristics of the magnet and pickup of the MID (Magnetic Iron Detector)"
- 2000  
Department of Physics of the University of Genoa  
Collaborative work on the magnet and pickup project for the second susceptometer prototype
- 1999  
AMIC Srl, Genoa (Italy)  
Support in calibrating two HERON multi-parameter probes for water monitoring

- Academic experience**
- Since 2020  
Lecturer of Satellite Derived Bathymetry at the Master's degree course in Hydrography and Oceanography, University of Genova.
- Since 2017  
Teaching Assistant of Oceanography, Meteorology, Hydrography and Oceanographic Measures at the Master's degree course in Hydrography and Oceanography, University of Genova.
- Since 2015  
Lecturer of Mathematics, Physics and Computer Science at the Category B Hydrographic Surveyor Course, Italian Hydrographic Institute
- Since 2014  
Lecturer of Oceanography at the Italian Shipping Academy
- Since 2011  
Teaching Assistant of Oceanography and Meteorology at the II Level Master Course in Marine Geomatics, IHI and University of Genova.

- Publications**
- Bernardis, M.; Nardini, R.; Apicella, L.; Demarte, M.; **Guideri, M.**; Federici, B.; Quarati, A.; De Martino, M. Use of ICESat-2 and Sentinel-2 Open Data for the Derivation of Bathymetry in Shallow Waters: Case Studies in Sardinia and in the Venice Lagoon. *Remote Sens.* **2023**, *15*, 2944. <https://doi.org/10.3390/rs15112944>
- R. Ivaldi, M. Demarte and **HIGH NORTH 17 Team**: "*High North 17 Cruise Report*". Ed. Istituto Idrografico della Marina, I.I. 3180 – Genova 2017
- Picco P., Demarte M., D'Epifanio R., **Guideri M.**, Repetti L., Morucci S., Ferla M.: "*Detection of short-period sea level oscillations in the Gulf of Genoa*". Oceans'17 MTS/IEEE Conference, Aberdeen 19<sup>th</sup> – 22<sup>nd</sup> June 2017.
- Pinardi, N., Lyubartsev, V., Cardellicchio, N., Caporale, C., Ciliberti, S., Coppini, G., De Pascalis, F., D'Alti, L., Federico, I., Filippone, M., Grandi, A., **Guideri, M.**, Lecci, R., Lamberti, L., Lorenzetti, G., Lusiani, P., Macripo, C. D., Maicu, F., Mossa, M., Tartarini, D., Trotta, F., Umgiesser, G., and Zaggia, L.: *Marine Rapid Environmental Assessment in the Gulf of Taranto: a multiscale approach*, Nat. Hazards

Dialti L., **Guideri M.**, Ivaldi R., Papa L.: "Dinamiche della copertura glaciale artica e rotte di navigazione". Ed. Istituto Idrografico della Marina, I.I. 3177 – Genova 2015

Grassi, M.; Carmisciano, C.; Cocchi, L.; Dialti, L.; Filippone, M.; **Guideri, Matteo**; Ivaldi, Roberta; Masetti, Giuseppe; Muccini, F.; Pratellesi, M.; Ricci, E.; and Stefanelli, Paolo, "Caratterizzazione dell'ambiente marino dei Campi Flegrei. Risultati preliminari della campagna oceanografica RICAMAR 2013" (2013). Center for Coastal and Ocean Mapping. Paper 862.

Carmisciano C., Grassi M., Cocchi L., Masetti G., Filippone M., Ricci E., Pratellesi M., Ivaldi R., Iannaccone G., Berrino G., De Natale G., Chiodini G., Caliro S., Dialti L., **Guideri M.**, Muccini F., Stefanelli P., Orsi G., Iafolla V., Italiano F., Buongiorno F., Stramondo S., Bignami C., Polcari M., Silvestri M. (2013). *RICAMAR2013: Rilievi per la caratterizzazione dell'ambiente marino nel Golfo di Pozzuoli. Rapporto sull'attività 13-31 maggio 2013*. Rapporti Tecnici INGV n. 262, ISSN 2039-7941.

Dialti L., De Lucia A., Marziani F., Niccolini A., Zeppetella A., Di Fava M., **Guideri M.**, Carmisciano C., Cocchi L., Muccini F., Bortoluzzi G., Aliani S. (2013). *Rapporto sulle attività geofisiche, oceanografiche e di campionamento durante la crociera PANSTR12 con Nave Aretusa: Isole Eolie (Stromboli, Panarea, Salina) (30.06.2012-14.07.2015)*. Rapporti Tecnici INGV n. 245, ISSN 2039-7941.

**Other** I.APRA.010075 L/Mc CRO - RPAS Pilot Attestation for Critical Operations with Light (<25 Kg) Multicopters;  
Safety Manager for RPAS operations of the Italian Hydrographic Institute;  
Italian Representative at MILITARY COMMITTEE WORKING GROUP (MCWG)  
METEOROLOGICAL AND OCEANOGRAPHIC (METOC) MILITARY OCEANOGRAPHY (MILOC) PANEL  
Member of the International Quality controlled Ocean Database (IQuOD) community  
Member of the Italian Oceanographic Commission - Global Ocean Observing System Working Group  
Referent of the IHI Director for WGs/Committees for Meteorological and Oceanographic topics

**Conferences** 2021 - Workshop sullo Spazio e servizi satellitari a supporto del cluster marittimo: "Servizi per applicazioni marittime: batimetria da satellite"  
2018 - SEDRIPOORT Interreg IT-FR Workshop La modellistica per la gestione e la protezione dell'ambiente marino: "L'IIM e lo sviluppo di modelli oceanografici di rapida risposta da open a very shallow water"  
2017 - Decision Support and Risk Assessment for Operational Effectiveness (DeSRA) Conference: "The Italian Hydrographic Institute experience in surf zone modelling simulations"  
2017 - ATENA Workshop on Simulation in Marine Environment: "Modellistica oceanografica a supporto delle operazioni navali e anfibe"  
2016 - Decision Support and Risk Assessment for Operational Effectiveness (DeSRA) Conference: "The Italian Hydrographic Institute experience in the support to naval operations"  
2013 - Third National Congress of Operational Oceanography: "Bathymetry and bathymetric grids for studies and modelling"  
2012 - National Group of Operational Oceanography: "Modello d'onda nel Mar Ligure"  
2012 - EMODnet Physical Parameter Workshop: "Oceanographic Database at Italian Navy Hydrographic Office"  
2010 - National Group of Operational Oceanography: "La previsione dello stato del mare a supporto delle operazioni navali: il caso di Teulada"

**Courses** 2020 - Workshop "Lo spazio orbitale: sistemi complessi e applicazioni"  
2019 - QPS: "Qimera & Fledermaus Training Course"  
2018 - Leica: "Training Course in LIDAR data processing "  
2017 - Fugro LADS: "Training Course in Airborne LIDAR Bathymetry"

2016 - DHI Academy: "*Training Course on the computational code MIKE 3 HD and MIKE 21 SW*"

2012 - Quester Tangent: "*QTC Swathview & QTC Clams*"

2011- Teledyne CARIS: "*Hydrographic Production Database Administration training course*"

2009 - Italian Ministry of Defence: "*General training course on the main activities of the Ministry of Defense - 1st&2nd module*"

2008 - Pico&Form, Orizzonte Sistemi Navali (Fincantieri/Leonardo): "*Technical Planning Management Course*"

2008 - Università degli Studi di Genova: "*Application of the operating procedure for carrying out surveys of airborne asbestos fibers on Naval Units of the Italian Navy*"

2008 - TÜV Italia: "*The component qualification process and approval according to the European Directives in the Automotive field*"

2006 - Assing S.p.A, IT Air Force, Italian Society for Microscopical Sciences: "*Theoretical and practical course of electron microscopy applied to failure analysis on metallic materials*"

2006 - Microconsult S.r.l., AMETEK Taylor Hobson: "*Metrology seminar on surface finish and shape*"