



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Federica Grilli**  
E-mail federica.grilli@cnr.it  
Gender Female

### Work experience

Dates	2011 - present
Occupation or position held	Permanent researcher scientist at the Italian National Research Council – Institute for Biological Resources and Marine Biotechnologies (CNR-IRBIM) of Ancona
Main activities and responsibilities	Experimental studies in physical and chemical oceanography, mainly in the Mediterranean Sea (Adriatic Sea) and Antarctica (Ross Sea)
Name and address of employer	National Research Council - Institute for Biological Resources and Marine Biotechnologies - CNR - IRBIM Ancona, Largo Fiera della Pesca 1, 60121 Ancona (Italy)
Type of business or sector	Physical and chemical oceanography
Dates	2007 - 2011
Occupation or position held	Fixed-term contract as a researcher
Main activities and responsibilities	Sampling and elaboration of oceanographic data, studies of the physical and biogeochemical properties of the water masses, oceanographic cruises coordination, environmental monitoring
Name and address of employer	National Research Council - Institute of Marine Science – (CNR – ISMAR) of Ancona, now Institute for Biological Resources and Marine Biotechnologies (IRBIM)
Type of business or sector	Physical and chemical oceanography
Dates	2003 - 2007
Occupation or position held	Fellowship in Oceanography
Main activities and responsibilities	Experimental studies in physical and chemical oceanography within the project «Environmental monitoring of gas-platform in Adriatic Sea (ENI S.p.A. - Division AGIP)»
Name and address of employer	National Research Council - Institute of Marine Science- CNR - ISMAR Ancona,
Type of business or sector	Physical and chemical oceanography, environmental monitoring
Dates	1999 - 2003
Occupation or position held	Scholarship in Oceanography
Main activities and responsibilities	Scientific research within the project «PRISMA - Programma di Ricerca e Sperimentazione per la Salvaguardia del Mare Adriatico» and the project «MAT - Mucilages in the Adriatic and Tyrrhenian seas»
Name and address of employer	National Research Council - Institute of Marine Science- CNR - ISMAR Ancona
Type of business or sector	Physical and chemical oceanography

## Education and training

Dates 1992 - 1997  
Title of qualification awarded M. Sc. Degree in Environmental Sciences  
Principal subjects/occupational skills covered Physical oceanography application, title of the experimental thesis "Le cause dinamiche della stratificazione verticale nel Mediterraneo"  
Name and type of organisation providing education and training University of Bologna (in Ravenna)

Dates 1985 -1990  
Title of qualification awarded Scientific High School diploma  
Principal subjects/occupational skills covered Mathematics, Physics  
Name and type of organisation providing education and training Liceo Scientifico statale "A. Oriani" di Ravenna

## Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment  
*European level* (\*)

**English**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
A2	Basic user	B1	Independent user	A2	Basic user	A2	Basic user	B1	Independent user

(\*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu/en/files/quest_doc/2008/08/12/20080812_01_en.pdf)

## Technical skills and competences

Strong background in the analysis of oceanographic data (data processing, visualization and programming), particularly regarding the Mediterranean Sea (Adriatic Sea) and Antarctica (Ross Sea) dynamics. Currently her researches are aimed at: a) to study the dynamic processes that influence the characteristics and distribution of water masses, b) to study seasonal and interannual variability of the physical and biogeochemical properties of the water masses, c) estimate water and nutrients fluxes, d) to study and monitor the environmental conditions of eutrophication in the Adriatic Sea coastal areas and to study the impact of climate change on the water resources, e) to evaluate the potential environmental impact resulting from the installation of platforms off-shore, f) to manage and integrate the oceanographic data-base of Oceanography's group. Since 1998 she collaborates with the CNR of Ancona in a lot of national and international scientific research programs. She is member of the Italian Society of Oceanography and Limnology (A.I.O.L.). She participated at more than 60 oceanographic cruises (also chief scientist on board) following the acquisition of physical oceanographic data, processing and analysis data and she participated at 3 national expeditions in Antarctica (Ross Sea).

### Main skills:

- Oceanographic measurements with CTD multiparameter profiler and ADCP (Acoustic Doppler Current Profiler).
- Collection and filtration of samples by Niskin bottles and Rosette for the measurement of the main chemical parameters.
- Using a salinometer Guidline Autosol 8400B to determine water sample salinities
- Experience in deploying / recover of the currentmeters chains.
- Classification of video-images for the evaluation of horizontal and vertical distribution of gelatinous macroaggregates.
- Planning and development of oceanographic cruises.

### Data Analysis:

- Acquisition and processing of hydrological (CTD, SEACAT Thermosalinograph, XBT) and current (RCM7, RCM8, RCM9, ADCP and CODAR) data
- Biogeochemical data acquisition and analysis
- Extraction of raw data.
- Oceanographic data analysis and interpretation
- Time series analysis and interpretation
- Physical development of theoretical models of codes of data analysis and sensitivity studies.

## Computer skills and competences

- Operating system: MS-DOS, UNIX, Linux, Microsoft Windows
- Programming languages: Fortran, Matlab, Prolog, Unix shell, Quick Basic, Visual Basic.
- Specific Software: Latex, Scientific Word, Seasoft-Win32 (for CTD), WinADCP, WinSC, GeoMedia Professional 4.0 (GIS), GrADS (Grid Analysis and Display System), XMGR, MsOffice, Ocean Data View (ODV), Surfer, Grapher, Adobe Photoshop.
- Programs for data acquisition and data extraction: SeaSave, SBE Data processing, SeaTerm, Sippican and RDI Tools.

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