

PERSONAL INFORMATION

Alessandro Grandi



 CMCC, Viale Berti Pichat 6/2, 40127, Bologna, Italy

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Sex Male | Nationality Italian

WORK EXPERIENCE

April 2018 - present **Senior Research Associate**

CMCC, Via Berti Pichat 6/2 – 40100 Bologna, Italy

Data analysis, validation of the oceanographic forecasting system, management of the operational forecasting production chain for the Mediterranean Sea.

[Business or sector](#) Research

September 2007 – April 2018 **Technical Collaborator for Research Institutes**

National Institute of Geophysics and Volcanology, Via Donato Creti 12 – 40100 Bologna, Italy

- Operational Manager of the operational forecasting production chain for the Mediterranean Sea. Validation of the oceanographic forecasting system, data analysis and production of climatologies.

[Business or sector](#) Research

September 2006 - September 2007 **Scholarship**

National Institute of Geophysics and Volcanology, Via Donato Creti 12 – 40100 Bologna, Italy

- Validation of the oceanographic forecasting system for the Mediterranean Sea and oceanographic data analysis.

[Business or sector](#) Research

April 2006 – August 2006 **Trainee**

National Institute of Geophysics and Volcanology, Via Donato Creti 12 – 40100 Bologna, Italy

- Validation of the oceanographic forecasting system for the Mediterranean Sea and oceanographic data analysis.

[Business or sector](#) Research

December 2005 – March 2006 **Attending Graduate**

University of Bologna, Department of Chemistry, Via Selmi 2 – 40100, Bologna, Italy

- Synthesis of organic compounds

[Business or sector](#) Research

June 2003 – February 2005 **Attending Graduate**

University of Bologna, Department of Chemistry, Via Selmi 2 – 40100, Bologna, Italy

- Synthesis of organic compounds

[Business or sector](#) Research

EDUCATION AND TRAINING

1996 - 2002 **Master's Degree in Chemistry**

University of Bologna, Department of Chemistry, Via Selmi 2 – 40100, Bologna, Italy

- Master's Thesis: A. Grandi, Porzi G., Sandri S. "Sintesi stereocontrollata di derivati di acidi diamminodicarbossilici di interesse biologico" (100/110)
- Specialization in Organic Chemistry
- Principal subjects covered: Organic Chemistry, Physical Chemistry and Analytical Chemistry

1995 - 1996 **Chemical Engineering**

University of Bologna, Bologna, Italy

- Attended the first two years of the Chemical Engineering program, then decided to switch to the Organic Chemistry.

1990 - 1994 **High School Diploma**

Liceo Scientifico "Enrico Fermi", Via Mazzini, 172/2 – 40139 Bologna, Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
French	B2	B2	B1	B1	B1

Communication skills ▪ good communication skills gained through my experience as member of the Service Desk for the Mediterranean Forecasting System in the framework of the European projects MyOcean, MyOcean 2, MyOcean Follow On and Copernicus Marine Environment Monitoring Service.

Job-related skills ▪ good command of oceanographic and atmospheric data analysis (currently responsible for the downloading and for the quality control of the NRT in-situ and atmospheric data for the Mediterranean Forecasting System)
 ▪ good command of the management of an operational chain for a marine forecasting system (currently operational manager of the operational group of the Mediterranean Forecasting System)

Computer skills ▪ good command of the O.S. Unix, Linux, Windows and Macintosh
 ▪ good command of Fortran, Python, NCL, MySQL, Matlab, Grads and ODV (Implementation of programs for the quality control, storage and visualization of oceanographic and atmospheric data)
 ▪ good command of Unix shell scripting (Implementation of scripts for the management of the operational chain of the Mediterranean Forecasting System)
 ▪ good command of Microsoft Office™ tools

Other skills ▪ Training Courses:

- 8-10 April 2015 CINECA, Bologna (I)
"Tools and Techniques for massive data analysis"
- 7-9 June 2011 "National Institute of Geophysics and Volcanology" (INGV), Bologna (I)
"Python for computational science"
- 3-6 November 2010 "Université de Liege", Calvi (F)
"Fifth DIVA User Workshop"
- 23-26 October 2009 "Université de Liege", Calvi (F)
"Fourth DIVA User Workshop"
- 8 June 2009 "National Institute of Oceanography and Experimental Geophysics" (OGS), Trieste (I)
"Argo Information and Training Day"
- February 2009 "National Institute of Geophysics and Volcanology" (INGV), Bologna (I)
"Introduction to ArcGIS 9.3"
- 16-20 June 2008 "International Oceanographic Data and Information Exchange" (IODE), Oostende (B)
"Third SeaDataNet Training Course"
- 4-6 November 2007 "Université de Liege", Calvi (F),
"Second DIVA User Workshop"

▪ Oceanographic Cruise:
 - 20-30 April 2012 "MEMA12" R/V URANIA
 Multidisciplinary sampling in the Otranto Channel (Italy)

ADDITIONAL INFORMATION

Publications peer reviewed

- Coppini, G., Clementi, E., Cossarini, G., Salon, S., Korres, G., Ravdas, M., Lecci, R., Pistoia, J., Goglio, A. C., Drudi, M., **Grandi, A.**, Aydogdu, A., Escudier, R., Cipollone, A., Lyubartsev, V., Mariani, A., Creti, S., Palermo, F., Scuro, M., Masina, S., Pinardi, N., Navarra, A., Delrosso, D., Teruzzi, A., Di Biagio, V., Bolzon, G., Feudale, L., Coidessa, G., Amadio, C., Brosich, A., Miró, A., Alvarez, E., Lazzari, P., Solidoro, C., Oikonomou, C., and Zacharioudaki, A.: The Mediterranean Forecasting System – Part 1: Evolution and performance, *Ocean Sci.*, 19, 1483–1516, <https://doi.org/10.5194/os-19-1483-2023>, 2023.
- Escudier R, Clementi E, Cipollone A, Pistoia J, Drudi M, **Grandi A**, Lyubartsev V, Lecci R, Aydogdu A, Delrosso D, Omar M, Masina S, Coppini G and Pinardi N (2021) A High Resolution Reanalysis for the Mediterranean Sea. *Front. Earth Sci.* 9:702285. doi: 10.3389/feart.2021.702285
- Joaquín Tintoré Pinardi N., Álvarez-Fanjul E., Aguiar E., Álvarez-Berastegui D., Bajo M., Balbin R., Bozzano R., Buongiorno Nardelli B., Cardin V., Casas B., Charcos-Llorens M., Chiggiato J., Clementi E., Coppini G., Coppola L., Cossarini G., Deidun A., Deudero S., D'Ortenzio F., Drago A. Drudi M., El Serafy G., Escudier R., Farcy P. Federico I., Fernández J.G., Ferrarin C., Fossi C., Frangoulis C., Galgani F., Gana S., Lafuente J.G., Sotillo M.G., Garreau P., Gertman I., Gómez-Pujol L., Hayes D., Hernández-Lasheras J., Herut B., Heslop E., Hilmi K., Juza M., Kallos G., Korres G., Lecci R., Lazzari P., Lorente P. Liubartseva S., Louanchi F., Malacic V., Mannarini G., March D., Marullo S., Mauri E., Meszaros L., Mourre B., Mortier L., Muñoz-Mas C., Novellino A., Obaton D., Orfila A., Pascual A., Pensieri S., Pérez Gómez B., Pérez Rubio S., Perivoliotis L., Petihakis G., Petit de la Villéon L., Poulain P.M., Pouliquen S., Prieto L., Raimbault P., Reglero P., Reyes E., Rotllan P., Ruiz S., Ruiz J., Ruiz I., Francisco Ruiz-Orejón L., Salihoglu B., Salon S., Sammartino S., Sánchez Arcilla A., Sánchez-Román A., Sannino G., Santoleri R., Sardá R., Schroeder K., Simoncelli S., Sofianos S., Sylaios G., Tanhua T., Teruzzi A., Testor P., Tezcan D., Tomer M., Trotta F., Umgiesser G., von Schuckmann K., Verri G., Vilibica I., Yucel M., Zavatarelli M, Zodiatis G., **Grandi A.**, Pistoia J. 2019, *Frontiers in Marine Science*, vol.6, page 568, DOI: 10.3389/fmars.2019.00568,
- Karina von Schuckmann ((Editor)), Pierre-Yves Le Traon ((Editor)), NevilleSmith (Chair) ((Review Editor)), Ananda Pascual ((Review Editor)), Samuel Djavidnia ((ReviewEditor)), Jean-Pierre Gattuso ((Review Editor)), Marilaure Grégoire ((Review Editor)), Glenn Nolan ((Review Editor)), Signe Aaboe, Eva Aguiar, Enrique Álvarez Fanjul, Aida Alvera-Azcárate, Lotfi Aouf, Rosa Barciela, Arno Behrens, Maria Belmonte Rivas, Sana Ben Ismail, Abderrahim Bentamy, Mireno Borgini, Vittorio E. Brando, Nathaniel Bensoussan, Anouk Blauw, Philippe Bryère, Bruno Buongiorno Nardelli, Ainhoa Caballero, Veli Çağlar Yumruktepe, Emma Cebrian, Jacopo Chiggiato, Emanuela Clementi, Lorenzo Corgnati, Marta de Alfonso, Álvaro de Pascual Collar, Emanuele Di Lorenzo, Jean-Marie Dominici, Cécile Dupouy, Marie Drévilion, Vincent Echevin, Marieke Eleveld, Lisette Enserink, Marcos García Sotillo, Philippe Garnesson, Joaquim Garrabou, Gilles Garric, Florent Gasparin, Gerhard Gayer, Francis Gohin, **Alessandro Grandi**, Annalisa Griffa, Jérôme Gourrion, Stefan Hendricks, Céline Heuzé, Elisabeth Holland, Doroteaciro Iovino, Mélanie Juza, Diego Kurt Kersting, Silvija Kipson, Zafer Kizilkaya, Gerasimos Korres, Mariliis Kõuts, Priidik Lagemaa, Thomas Lavergne, Heloise Lavigne, Jean-Baptiste Ledoux, Jean-François Legeais, Patrick Lehodey, Cristina Linares, Ye Liu, Julien Mader, Ilja Maljutenko, Antoine Mangin, Ivan Manso-Narvarte, Carlo Mantovani, Stiig Markager, Evan Mason, Alexandre Mignot, Milena Menna, Maeva Monier, Baptiste Mourre, Malte Müller, Jacob Woge Nielsen, Giulio Notarstefano, Oscar Ocaña, Ananda Pascual, Bernardo Patti, Mark R. Payne, Marion Peirache, Silvia Pardo, Begoña Pérez Gómez, Andrea Pisano, Coralie Perruche, K. Andrew Peterson, Marie-Isabelle Pujol, Urmas Raudsepp, Michalis Ravdas, Roshin P. Raj, Richard Renshaw, Emma Reyes, Robert Ricker, Anna Rubio, Michela Sammartino, Rosalia Santoleri, Shubha Sathyendranath, Katrin Schroeder, Jun She, Stefania Sparnocchia, Joanna Staneva, Ad Stoffelen, Tanguy Szekely, Gavin H. Tilstone, Jonathan Tinker, Joaquín Tintoré, Benoît Tranchant, Rivo Uiboupin, Dimitry Van der Zande, Karina von Schuckmann, Richard Wood, Jacob Woge Nielsen, Mikel Zabala, Anna Zacharioudaki, Frédéric Zuberer & Hao Zuo (2019) Copernicus Marine Service Ocean State Report, Issue 3, *Journal of Operational Oceanography*, 12:sup1, S1-S123, DOI:10.1080/1755876X.2019.1633075
- N. Pinardi, E. Ozsoy, M. Abdul Latif, F. Moroni, **A. Grandi**, G. Manzella, F. De Strobel, V. Lyubartsev, "Measuring the sea: Marsili's oceanographic cruise (1679-1680) and the roots of oceanography", *Journal of Physical Oceanography*, 48, 845-860, (2018)

- F. Trotta, N. Pinardi, E. Fenu, **A. Grandi**, and V. Lyubartsev; "Multi-nest high-resolution model of submesoscale circulation features in the Gulf of Taranto", *Ocean Dynamics* 12, 1609–1625 (2017)
- E. Clementi, P. Oddo, M. Drudi, N. Pinardi, G. Korres and **A. Grandi**; "Coupling hydrodynamic and wave models: first step and sensitivity experiments in the Mediterranean Sea", *Ocean Dynamics* 10, 1293–1312 (2017)
- Pinardi, N., V. Lyubartsev, N. Cardellicchio, C. Caporale, S. Ciliberti, G. Coppini, F. De Pascalis, L. D'Alti, I. Federico, M. Filippone, **A. Grandi**, M. Guideri, R. Lecci, L. Lamberti, G. Lorenzetti, P. Lusiani, C. D. Macripo', F. Maicu, D. Tartarini, F. Trotta, G. Umgiesser, L. Zaggia; "Marine Rapid Environmental Assessment in the Gulf of Taranto: a multiscale approach", *Natural Hazards and Earth System Sciences*, 16, 2623-2639, (2016)
- Romaniello V., P.Oddo, M.Tonani, L.Torrisi, **A. Grandi** and N.Pinardi, 2015. "Impact of sea surface temperature on COSMO forecasts of a Medcane over the western Mediterranean Sea", *Journal of Earth Science and Engineering* 5, 338-348, (2015).
- D. Balducci, **A. Grandi**, G. Porzi, S. Sandri; "Stereo-selective synthesis of a new chiral synthon: a cyclic pseudodipeptide containing an aspartic acid derivative and L-valine", *Tetrahedron Asymmetry* 1521, 17 (2006)
- D. Balducci, **A. Grandi**, G. Porzi, S. Sandri; "Stereocontrolled synthesis of unnatural cyclic dipeptides containing an L-valine unit", *Tetrahedron Asymmetry* 16, 1453-1462, (2005).
- A. Arcelli, D. Balducci, **A. Grandi**, G. Porzi, M. Sandri, S. Sandri; "Chiral 1,4-morpholin-2,5-dione derivatives as α -glucosidase inhibitors: Part 2", *Tetrahedron Asymmetry* 16, 1495-1501, (2005).
- D. Balducci, A. Grandi, G. Porzi, P. Sabatino, S. Sandri; "Stereo-selective synthesis of pseudotriptides incorporating uncommon bis- α -amino acid derivatives and X-ray analysis. Part 3.", *Tetrahedron Asymmetry* 15, 3929-3937 (2004).
- A. Arcelli, D. Balducci, **A. Grandi**, G. Porzi, M. Sandri, S. Sandri; "Chiral 1,4-Morpholine-2,5-dione derivatives: synthesis and evaluation as glucosidase inhibitors", *Monatshefte für Chemie* 135, 951-958 (2004).
- R. Galeazzi, M. Garavelli, **A. Grandi**, M. Monari, G. Porzi, S. Sandri; "Unusual peptides containing 2,6-diaminopimelic acid framework. Stereocontrolled synthesis, computational modelling, X-ray analysis. Part 2.", *Tetrahedron Asymmetry* 14, 2639-2649 (2003)

Publications not peer reviewed

- Fratianni C., M. Tonani, N. Pinardi, M. Adani, G. Coppini, S. Dobricic, M. Drudi, **A. Grandi**, P. Oddo, D. Pettenuzzo and V. Lyubartsev, 2012. "The Mediterranean Sea Forecasting System: Ten years on". *Operational Oceanography in Italy - toward a sustainable management of the sea*, edited by ARPA Emilia Romagna. First Published 2012, I quaderni di Arpa Arpa Agenzia regionale prevenzione e ambiente dell'Emilia Romagna. ISBN 978-88-87854-29-9.

Technical Report

- Tonani M., **A. Grandi**, C. Fratianni e M. Drudi 2010. European Marine Core Service Mediterranean Monitoring and Forecasting Centre (MFC): manuale d'uso del Mediterranean Forecasting System (Med-MFC-currents). Rapporto Tecnico INGV, n.163.
- Trani M., M. Tonani, **A. Grandi**, J. Pistoia, P. Oddo, G. Girardi e M. Drudi 2014. Quality control system of the Mediterranean Forecasting System Products. Rapporto Tecnico INGV, n.274.
- Delrosso D., E. Clementi, **A. Grandi**, M. Tonani, P. Oddo, G. Girardi, e N. Pinardi 2016. Towards the Mediterranean Forecasting System MyOcean V5: numerical experiments results and validation. Rapporto Tecnico INGV, n.345.

Projects

Participation and collaboration in the following research projects:

- MERSEA project
- EU-project SeaDataNet (A Pan-European Infrastructure for Ocean and Marine Data Management-Integrated Infrastructure Initiative (I3) Project contract 026212)
- EU-project SeaDataNetII (INFRA-2011-1.1.14. Multidisciplinary Marine Data Centers. Pan-European infrastructure for ocean and marine data management)
- Progetto bandiera RITMARE, la ricerca italiana per il mare
- EU-project MyOcean (Development of Upgraded Capabilities for Existing GMES Fast-Track Services and Related Operational Services; Grant agreement: 218812-1-FP7-SPACE 2007-1)
- EU-project MyOcean2 (Prototype Operational Continuity for the GMES Ocean Monitoring and Forecasting Service; Grant Agreement: 283367 FP7-SPACE-2011-1)
- EU-project MyOcean Follow On (H2020 - AdHoc - 2014-20)
- CMEMS Med-MFC: Copernicus Marine Environment Monitoring Service, Mediterranean - Monitoring and Forecasting Center. Phase1 and Phase2.
- SeaDataCloud