

Daniela Cianelli

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Current Position: Technologist

Current Affiliation:

Department of Research Infrastructures for marine biological resources, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Naples “Parthenope”, Italy	Laurea (equiv. MSc)	1991-1999	Nautical Sciences, with a major in Physical and Biological Oceanography -
University of Siena, Italy	Ph.D.	1999-2002	Polar Sciences (Oceanography)
University of Naples “Parthenope” and Stazione Zoologica Anton Dohrn, Naples, Italy	Postdoc	2003	Physical-Biological Oceanography
Université de la Méditerranée. Marseille, France	Postdoc	2004	Modelling Physical-Biological interactions
University of Naples “Federico II”, Naples Italy and CRdC-AMRA, Naples, Italy	Fellow Researcher	2004-2007	Physical oceanography and Environmental Risk
CoNISMa, Rome, Italy	Fellow Researcher	2007-2008	Physical oceanography and Environmental Risk
ISPRA (National Institute for Environmental Protection and Research) Rome, Italy	Research assistant	2008-2018	Physical Oceanography, Modelling pollutant transport processes and marine discharges
CoNISMa, Rome, Italy	Research assistant	2018-2019	Physical Oceanography, and modelling marine discharges
Stazione Zoologica Anton Dohrn, Napoli, Italy	Technologist	2019- to present	Physical Oceanography

Appointments and awards

2019 to present: Responsible for CoNISMa (InterUniversity National Center for Marine Sciences) of the project “A new wave hindcast dataset (Mediterranean Wind Wave Model – MWM) to validate HF-radar derived wave data”. MoU among University of Naples Parthenope, Danish Hydraulic Institute (DHI) and CoNISMa. Duration 2019-2020.

2018: inclusion of the article Cianelli et al. (2017) “Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system” Scientific Reports, 7: 15868, doi: 10.1038/s41598-017-15880-x into the “Top 100 in Earth Science”.

Other

Teaching

2014-2017 - MSc courses: Transport and diffusion processes in the Ocean and Atmosphere, Parthenope University, Naples, Italy

2013-14 - Master Course: Lagrangian Simulations and pollutant transport. National Research Council (CNR- IAMC), Italy.

2013-14 - MSc courses: Numerical modelling of pollutant transport and diffusion processes, Parthenope University, Naples, Italy

2012-to date - Physical Oceanography Teaching Assistant, Parthenope University, Naples, Italy.

2006-to date - Transport and diffusion in the Ocean and Atmosphere Teaching Assistant, Parthenope University, Naples, Italy.

2006-2012 - Coastal Oceanography Teaching Assistant, Parthenope University, Naples, Italy.

Students' Supervision

Supervisor of one post-doctoral researcher, two research stage students, seven MSc students, two Bachelor students (past and present).

Editorial Commitments

March 2019 to present: Reviewer for Environmental Pollution, Elsevier Publications.

April 2018 to present: Reviewer for Dynamics of Atmospheres and Oceans, Elsevier Publications.

March 2018 to present: Reviewer for Environmental Science and Pollution Research (ESPR), Springer Publications.

Ottobre 2017 to present: Reviewer for Marine Ecology Progress Series (MEPS), Inter- Research Publications.

March 2017 to present: Reviewer for Estuarine Coastal and Shelf Sciences (ECSS), Elsevier Publications.

April 2016 to present: Reviewer for Natural Hazards and Earth System Sciences (NHES), EGU Copernicus Publications.

March 2016 to present: Reviewer for Journal of Environmental Accounting and Management, L & H Scientific Publishing.

September 2015 to present: Reviewer for Journal of Global Ecology and Environment, International Knowledge Press.

January 2014 to present: Reviewer for British Journal of Applied Science and Technology, Science Domain International.

September 2012 to present: Reviewer for Journal of Atmospheric and Oceanic Technology American Meteorological Society (AMS) Publications.

December 2010 to present: Editorial board member of:
Computational Ecology and Software

Publications

Author of 32 publications indexed in Scopus (h-index: 9), of which 19 papers in ISI Journals, 5 book chapters (as of June 2019)

List of publications of the last 10 years (2008-present)

Peer-reviewed publications

Bunka N., Hall T., Zambianchi E., **Cianelli D.** et al., (2019) “Surface Currents III - HF radar applications in the Gulf of Naples”, The 4th Ocean Radar Conference for Asia-Pacific, Session III – Surface Currents , pp. 37-40.

Manfra L., **Cianelli D.**, Di Mento R., E. Zambianchi (2018), “Numerical-ecotoxicological approach to assess potential risk associated with oilfield production chemicals discharged into the sea”, Environmental Science and Pollution Research, 25,18213–18219, ISSN 0944-1344

Cianelli D., D’Alelio D., Uttieri M., Sarno D., Zingone A., Zambianchi E. and Ribera d’Alcalà M. (2017), “Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system”, Scientific Reports, 7, 15868, DOI:10.1038/s41598-017-15880-x

[Article included in the “2017 Top 100 in Earth Science” by Scientific Reports]

P. Falco, B. Buonocore, **D. Cianelli**, L. De Luca, A. Giordano, I. Iermano, A. Kalampokis, S. Saviano, M. Uttieri, G. Zambardino, E. Zambianchi (2016), “Dynamics and sea state in the Gulf of Naples: potential use of HF radar data in an operational oceanographic context”, Journal of Operational Oceanography, 9(1), s33-s45.

Cianelli D., Iermano I., Mozzillo P., Uttieri M., Zambardino G., Buonocore B., Falco P., Zambianchi E., (2015), “Inshore/offshore water exchange in the Gulf of Naples”, Journal of Marine Systems, 145, 37–52.

M. Uttieri, I. Iermano, **D. Cianelli**, L. Sabia, R. Sandulli, G. Spezie, E. Zambianchi, M.G. Mazzocchi (2014), “Coupling of an Individual-Based Model and Vertical Hydrodynamics to Investigate the Calanoid Copepod *Clausocalanus Furcatus* Vertical Distribution”, Biol. Mar. Mediter., 21 (1): 329-330

Uttieri M., **Cianelli D.**, Zambianchi E. (2013), “Behaviour-dependent predation risk in swimming zooplankters”, Zoological Studies, 52:32; doi. 10.1186/1810-522X-52-32

Uttieri M., **Cianelli D.**, Buongiorno Nardelli B., Buonocore B., Falco P., Colella S., Zambianchi E., “Multiplatform observation of the surface circulation in the Gulf of Naples (Southern Tyrrhenian Sea)”, Ocean Dynamics Volume 61, Issue 6 (2011), 779-796

L. Manfra, E. De Nicola, C. Maggi, E. Zambianchi, D. Caramiello, A. Toscano, **D. Cianelli** and A.M. Cicero (2010), “Exposure of rotifers, crustaceans and sea urchins to produced formation waters and sea waters in the Mediterranean sea”, Journal of Marine Biological Association of the UK doi:10.1017/S0025315410001037

M. Uttieri, L. Sabia, **D. Cianelli**, J. R. Strickler, E. Zambianchi (2010), “Lagrangian modelling of swimming behaviour and encounter success in co-occurring copepods: *Clausocalanus furcatus* vs. *Oithona plumifera*”, Journal of Marine Systems 81, Issue 1-2, 112–121

D. Cianelli, L. Sabia, M. Ribera d’Alcalà, E. Zambianchi (2009), “An individual-based analysis of the dynamics of two coexisting phytoplankton species in the mixed layer”, Ecological Modelling, 220, Issue 19, 2380-2392

D. Cianelli, L. Manfra, C. Maggi, E. Zambianchi (2009), “New insights on monitoring and discharge of PFW from offshore gas platforms in the Adriatic Sea“ Exploration and Production: Oil and Gas Review, 7, Issue 2, 129-132

D. Cianelli, M. Uttieri, J. R. Strickler, E. Zambianchi (2009), “Zooplankton encounters in patchy particle distributions”, Ecological Modelling, 220, Issue 5, 596-604

D. Cianelli, L. Manfra, E. Zambianchi, C. Maggi, A. M. Cicero, A. Cappiello, G. Famigliani, M. Mannozi (2008), “Near-field dispersion of Produced Formation Water (PFW) in the Adriatic Sea: an integrated numerical - chemical approach”, *Marine Environmental Research*, 65(4), 325-337.

Book Chapters

Cianelli D., Manfra L, Di Mento R, Cicero AM, Zambianchi E, (2013), “Disposal of Produced Formation Water from offshore gas platforms in the Mediterranean Sea: a parametric study on discharge conditions aimed at mitigating risks for the marine environment” In: *Mediterranean Sea: Ecosystems, Economic Importance and Environmental Threats*, T. B. Hughes (Ed), Chapter 3, 65-90, Nova Science Publ, Hauppauge, NY. ISBN:978-1-62618-238-7

Cianelli D., M. Uttieri, R. Guida, M. Menna, B. Buonocore, P. Falco, G. Zambardino, E. Zambianchi (2013), “Land-based remote sensing of coastal basins: use of an HF radar to investigate surface dynamics and transport processes in the Gulf of Naples” In: *Remote Sensing: Techniques, Applications and Technologies*, Alcântara E. (Ed.), Chapter 1, 1-30, Nova Science Publishers, Hauppauge, NY. ISBN: 978-1-62417-140-6

Cianelli D., M. Uttieri, B. Buonocore, P. Falco, G. Zambardino, E. Zambianchi (2011), “Dynamics of a very special Mediterranean coastal area: the Gulf of Naples” In: *Mediterranean Ecosystems: Dynamics, Management & Conservation*, G. Williams (Ed.), Chapter 7, 129-150, Nova Science Publishers, Hauppauge, NY. ISBN: 978-1-61209-146-4

Cianelli D., M. Uttieri, E. Zambianchi (2012), “Individual Based Modelling of Planktonic Organisms”, In: *Ecological Modelling* Wen-Jun Zhang (Ed.), Chapter 5, 83-96, Nova Science Publishers, Hauppauge, NY. ISBN: 978-1-61324-567-5

Cianelli D., L. Manfra, E. Zambianchi, C. Maggi, A.M. Cicero (2010), “Modelling and observations of Produced Formation Waters (PFW) at Sea”, In: *Fluid Waste Disposal*, Kay W. Canton (Ed.), Chapter 4, Nova Science Publishers, Hauppauge, NY.