

# MIGUEL ONORATO

## ACADEMIC APPOINTMENTS

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*2019–present* Full Professor, Dipartimento di Fisica, Università di Torino  
*2015–2019* Associate Professor, Dipartimento di Fisica, Università di Torino  
*2016* Visiting Professor (one month), Université Pierre et Marie Curie, Paris, France  
*2014–2016* Visiting Professor (one month per year), Lille University of Science and Technology, Lille, France  
*2010* Visiting Professor (one month), Swinburne University of Technology, Australia  
*2009–2012* Guest Professor, Katholieke Universiteit Leuven, Belgium  
*2004–2015* Ricercatore (Assistant Professor), Dipartimento di Fisica Generale, Università di Torino

## EDUCATION

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*February 2000* Ph.D. in Fluid Mechanics - Politecnico di Torino  
*October 1994* Laurea in Fisica - Università degli Studi di Torino

## RESEARCH FELLOWSHIPS

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*2002–2004* “Assegno di Ricerca” in the Dipartimento di Fisica Generale, Università di Torino  
*2000–2002* “Contratto di Collaborazione Coordinata e Continuativa” in the Dipartimento di Fisica Generale, Università di Torino  
*1995–1996* fellowship at C.N.R (Centro Nazionale della Ricerca) c/o University of Pisa  
*1993 (June–August)* Von Karman Institute fellowship, Bruxelles (Belgium)

## SUMMARY OF SCIENTIFIC ACTIVITIES AND PRODUCTS

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M. Onorato is a world’s leading expert in the field of nonlinear ocean waves and wave turbulence. He has given important contributions, both theoretically and experimentally, to the understanding of the statistical properties of surface gravity waves, with particular interest on extreme events. He has also given important contributions to the understanding of the thermalisation properties in one dimensional chains.

Number of published papers in international journals: **130**  
among which 16 papers in Physical Review Letters (I.F. 8.8), 2 papers in P.N.A.S (I.F. 9.5), 2 papers in Physical Review X (I.F. 14.4), 1 paper in Physics Reports (I.F. 20.0), 1 paper in Scientific Reports  
H-index: **48** (Google Scholar), **41** (Scopus)  
Total Number of Citations: 8375 (Google Scholar), 5599 (Scopus)  
Co-Editor of the book “Rogue and Shock Waves in Nonlinear Dispersive Media” Lecture Notes in Physics, Springer.

He is has been part of the organizing committees of many international conferences and summer schools.

## GRANTS AS P.I. OR LOCAL P.I.

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*2019-2023* Simons Foundation: Wave Turbulence (Local P.I.) 465.600 €  
*2020-2024* European Commission, Future and Emerging Technologies: Bio-Inspired Hierarchical Meta-Materials (Local P.I.) 100.000 €  
*2017-2019* CSTO160004, Compagnia San Paolo/Università di Torino (P.I.): Hierarchical Metamaterials for Acoustic and Seismic Applications. 75.460 €  
*2013-2014* Consultancy contract with “Waves and Solitons L.L.C.” (P.I.): Nonlinear interactions in ocean waves. 25.000 U.S.\$

2013–2015 Consultancy contract with Technical University of Berlin (P.I.): PROWOO Prognose Optimaler Wetterfenster für Offshore Operationen. 17.661 €  
2013–2017 PRIN 2012BFNWZ2004: Extreme wave events in nonlinear optics and hydrodynamics (Local P.I.). 41.000 €  
2009–2013 FP7-SST-2008-RTD-1: Design for ship safety in extreme seas (Local P.I.). 259.512 €  
2006–2008 Bando Programma Quadro per il Potenziamento della Ricerca Scientifica Applicata in Piemonte: Innovative Numerical Methods For Complex Microflows (P.I.). 100.000 €  
2000–2001 Progetto Giovani Ricercatori - Università di Torino ( P.I.): Predicibilità della formazione delle onde giganti sulla superficie del mare. 5.000.000 Lire  
1999–2000 Progetto Giovani Ricercatori - Università di Torino (P.I.): Studio numerico-sperimentale di onde estreme sulla superficie del mare. 16.000.000 Lire

## **EDITORIAL ACTIVITY**

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*July 2017–present:* Member of the Editorial board of the Journal of Fluid Mechanics

## **STUDENT SUPERVISION ACTIVITY**

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Supervisor of about 50 bachelor/master thesis in Physics, 2 Ph.D. students, 6 Post Doctoral fellows

## **PEER REVIEWING ACTIVITY**

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*Referee for:*

Physical Review Letters, Nature Physics, P.N.A.S., Physical Review X, Physical Review E, Physical Review F, Optics Letters, Europhysics Letters, Physics Letters A, Physics of Fluids, Physica D, Nonlinearity, Journal of Fluid Mechanics, Nonlinear Processes in Geophysics, Fluid Dynamics Research, Journal of Physical Oceanography, European Journal of Mechanics B/Fluids, Journal of Geophysical Research, Geophysical Research Letters, Annals of Physics, Ocean Dynamics, Wave Motion, Journal of Physics A, Proceedings of the Royal Society of London A

*Revision of proposals for the following agencies:*

Engineering and Physical Sciences Research Council, E.P.S.R.C. (UK)  
European Science Foundation  
L'Agence Nationale de la Recherche, A.N.R. (France)  
Israel Science Foundation (Israel)  
Estonian Research Council (Estonia)  
Austrian Science Fund (FWF) (Austria)