

PERSONAL INFORMATION

Rodolfo Console

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Sex M | Date of birth 01-04-1944 | Nationality Italian

WORK EXPERIENCE

1997- on going

University

- **Department of Physics, University of Rome 3 – Italy** - Professor of Seismology (1997-2009)
- **Geophysical Institute, University of Bologna – Italy** - Lecturing about the physics of the earthquake sources for the PhD course (2001-ongoing)
- **Università Telematica Internazionale UNINETTUNO – Italy** – Lecturing about the technical physics of the environment (2016- ongoing)

1981- on going

Public-law Organisation

Member (1981-2012), President (2012- ongoing)

Center of Integrated Geomorphology for the Mediterranean Area – CGIAM – Potenza - Italy

- Participation in development of scientific research and advanced methodologies for earthquake risk analysis and mitigation, relevant for measures of civil protection.
- Project Coordinator in the project “*Displacement control of historic and cultural monuments and buildings in the historic centre of Rome by Multitemporal Differential Interferometry*” (2010-2012)
- CGIAM Project Leader in the EU funded project “*Good practices in disaster prevention*” (DG ECHO, ENV.A.4/SER/2010/0004) (2011-2013)
- Project Coordinator in the project “*Reduction of the economic-financial exposure of the state and protection of the human lives*” (2013-ongoing)

1997- on going

Research Institute

Researcher, senior researcher and research manager

National Institute of Geophysics and Volcanology, Rome - Italy

Main activities:

- Upgrading of the Italian National Seismological Network (1968-1982);
- Development of computer procedures for the preparation of National Seismological bulletins (1972-1982);
- Implementation of the nation-wide automatic acquisition system of seismological data (1982-1987);
- Organization of the real time information service for the seismic activity on the national territory devoted to the National Civil protection Agency and the public (1984-1986);
- Senior Researcher at the National Institute of Geophysics (Rome) 1990-1992
- Research Manager at the National Institute of Geophysics and Volcanology (INGV, Rome) 1992-2004
- Present position after formal retirement: research associate at the INGV.

Project Leader for the INGV participation in the following international projects also funded by EU:

- World-Laboratory, Project PLATO-1, responsible for the implementation of local seismological networks in developing countries of the Mediterranean area (1990-1995);
- “Scenario”, funded by the European Union (1996-1998);
- Seismological Monitoring of the Dlouhé Stráni Hydroelectric Plant - a Site Safety Study, funded by the Italian Ministry for Foreign Affairs (1998-2003).

EDUCATION AND TRAINING

1962-1967 **Degree in Physics**
University of Rome - Italy

PERSONAL SKILLS

Mother tongue **ITALIAN**

Other languages **ENGLISH**
 Excellent knowledge

SPANISH
 Good knowledge

Digital competence Knowledge of Microsoft Windows, Office and FORTRAN language

Driving licence **B**

ADDITIONAL INFORMATION

Publications **Published more than 100 papers on international journals, mostly related to seismological data processing, earthquake physics, seismicity patterns and statistical analysis**

List Of Publications on JCR Reviews in the last 10 years

Console, R. and Giuntini, B. (2006). An algorithm for double difference joint hypocenter location: Application to the 2002 Molise (Central Italy) earthquake sequence. *Annals of Geophysics*, 49, 2/3, 841-852.

Console, R., M. Murru and F. Catalli (2006). Physical and stochastic models of earthquake clustering. *Tectonophysics*, 417, 1-2, 141-153 .

Console, R., and F. Catalli (2006). A rate-state model for aftershocks triggered by dislocation on a rectangular fault: a review and new insights. *Annals of Geophysics*, 49, 6, 1187-1201.

Papadimitriou, E. E., Evison, F. F., Rhoades, D. A., Karakostas, V. G., Console, R. and M. Murru (2006). Long-term seismogenesis in Greece: Comparison of the evolving stress field and precursory scale increase approaches. *J. Geophys. Res.*, 111, B05318, doi:10.1029/2005JB003805.

Console, R., Rhoades, D. A., Murru, M., Evison, F. F., Papadimitriou, E. E., and V. Karakostas (2006). Comparative performance of time-invariant, long-range and short-range forecasting models on the earthquake catalogue of Greece. *J. Geophys. Res.*, 111, B09304, doi:10.1029/2005JB0044113.

Battaglia, F., Freddi, A., Console, R., Favali, P., Montuori, C., Pedemonti, S. (2006). L'assicurazione contro il rischio terremoto in Italia: uno studio preliminare parziale. *Assicurazioni*, LXXIII, 2-3, 241- 284.

Console, R., Murru, M., Catalli, C., and G. Falcone (2007). Real time forecasts through an earthquake clustering model constrained by the rate-and-state constitutive law compared with a purely stochastic ETAS model. *Seism. Res. Lett.*, 78, 1,49-56.

Murru, M., R. Console, G. Falcone, C. Montuori, and T. Sgroi (2007). Spatial mapping of the b value at Mount Etna, Italy, using earthquake data recorded from 1999 to 2005, *J. Geophys. Res.*, 112, B12303, doi:10.1029/2006JB004791.

Pignatelli, A., Giuntini, A., and Console, R. (2007). Matlab software for the analysis of seismic waves recorded by three-element arrays. *Computers and Geosciences*, 34, 792-801.

Hauksson, E. Cocco, M., Console, R. and S. Wiemer (2007). Advancing the frontiers of earthquake science. *EOS*, 88, 30, 302.

Console, R., Murru, M., Falcone, G. and F. Catalli (2008). Stress interaction effect on the occurrence probability of characteristic earthquakes in Central Apennines. *J. Geophys. Res.*, 113, B08313, doi:10.1029/2007JB005418.

Catalli, F., Cocco, M., Console, R. and L. Chiaraluce (2008). Modeling seismicity rate changes during the 1997 Umbria-Marche sequence (central Italy) through a rate- and state-dependent model. *J. Geophys. Res.*, 113, B11301, doi:10.1029/2007JB005356.

Maggi, C., Frepoli, A., Cimini, G.B., Console, R., and Chiappini, M. (2008). Recent seismicity and crustal field in the Lucanian Apennines and surrounding areas (Southern Italy): seismotectonic implications. *Tectonophysics*, 463, 1-4, 130-144.

Murru, M., Console, R., and G. Falcone (2008). Real-time earthquake forecasting in Italy. *Tectonophysics*, 470, 3-4, 214-223.

Console, R., Murru, M., and G. Falcone (2010). Probability gains of an epidemic-type aftershock sequence model in retrospective forecasting of $M \geq 5$ earthquakes in Italy. *J. of Seismology*, 14, 1, 9-26.

Console, R., Murru, M., and G. Falcone (2010). Perturbation of earthquake probability for interacting faults by static Coulomb stress changes. *J. of Seismology*, 14, 1 67-77

Console, R., Jackson, D.D., Kagan, Y.Y. (2010). Using the ETAS model for catalog declustering and seismic background assessment. *Pure Appl. Geoph.*, 10.1007/s00024-010-0065-5.

Console, R., Murru, M., and G. Falcone (2010). Retrospective forecasting of $M4.0$ earthquakes in New Zealand. *Pure Appl. Geoph.*, 10.1007/s00024-010-0068-2.

Rhoades, D.A., Papadimitriou, E.E., Karakostas, V.G., Console, R., and Murru, M. (2010). Correlation of static stress changes and earthquake occurrence in the North Aegean region. *Pure Appl. Geoph.*, 10.1007/s00024-010-0092-2.

Falcone, G., Console, R., and M. Murru (2010). Short-term and long-term earthquake occurrence models for Italy: ETES, ERS and LTST (41-50). In: An earthquake forecast experiment in Italy, W. Marzocchi, D. Schorlemmer, and S. Wiemer ed., *Annals of Geophysics*, 53, 41-50.

Parsons, T., Console, R., Falcone, G., Murru, M. and K. Yamashina (2012). Comparison of characteristic and Gutenberg - Richter models for time-dependent $M \geq 7.9$ earthquake probability in the Nankai-Tokai subduction zone, Japan. *Geophys. J. Int.*, doi: 10.1111/j.1365-246X.2012.05595.x.

Mosca, I., Console, R., and G. D'Addezio (2012). Renewal models of seismic recurrence applied to paleoseismological and historical observations. *Tectonophysics*, 564-565, 54-67.

Carluccio, R., A. Giuntini, V. Materni, S. Chiappini, C. Bignami, F. D' Ajello Caracciolo, A. Pignatelli, S. Stramondo, R. Console, and M. Chiappini (2012). A multidisciplinary study of the DPRK nuclear tests. *Pure Appl. Geophys.*, doi: 10.1007/s00024-012-0628-8.

Giuntini, A., V. Materni, S. Chiappini, R. Carluccio, R. Console and M. Chiappini (2012). Station travel time calibration method improves location accuracy on a global scale. *Seism. Res. Lett.*, 84, 2, 225-232, doi: 10.1785/0220120124.

Console, R., K. Yamaoka, and J. Zhuang (2012). Implementation of short- and medium-term earthquake forecast, Editorial. *Int. J. of Geophys.*, Volume 2012, Article ID 217923, 2 pages, doi:10.1155/2012/217923

Console, R., G. Falcone, V. Karakostas, M. Murru, E. Papadimitriou, and D. Rhoades (2013), Renewal models and coseismic stress transfer in the Corinth Gulf, Greece, fault system, *J. Geophys. Res. Solid Earth*, 118, 3655–3673, doi:10.1002/jgrb.50277.

Console, R., R. Carluccio, E. Papadimitriou, and V. Karakostas (2014). Synthetic earthquake catalogs simulating seismic activity in the Corinth Gulf, Greece, fault system, *J. Geoph. Res.*, 120, 1, 326-343, doi: 10.1002/2014JB011765.

Murru, M., J. Zhuang, R. Console, and G. Falcone (2014). Short-term earthquake forecasting experiment before and during the L'Aquila (central Italy) seismic sequence of April 2009, *Annals of Geoph.*, 57, 6, 2014, S0649; doi:10.4401/ag-6583.

Materni, V., A. Giuntini, S. Chiappini, R. Console and M. Chiappini (2015). Relocation of earthquakes by source-specific station corrections in Iran, *Bull. Seism. Soc. Am.*, 105, 5; doi: 10.1785/0120140346

Console, R., A. Mercuri, R. Carluccio and M. Chiappini (2016). Analisi delle condizioni di sismicità nelle aree di scarica della Regione Sicilia prese in considerazione nel Progetto SIGLOD, *Quaderni di Geofisica*, 135, pp. 36.

Murru, M., Akinci, A., Falcone, G., Pucci, S., Console, R. and Parsons, T. (2016). $M \geq 7$ Earthquake Rupture Forecast and Time-Dependent Probability for the Sea of Marmara Region, Turkey, *J. Geoph. Res.*, 121, 4, 2679–2707, doi:10.1002/2015JB012595.