

## Curriculum Vitae

## Nicola CASAGLI

BSc CGeol MSc DIC PhD OM

## PERSONAL INFORMATION



University of Florence - Department of Earth Sciences  
Via G. La Pira n.4, 50121 Firenze (Italy)

Office:  
Mobile:  
Fax:

Office: nicola.casagli@unifi.it  
Personal: nicola.casagli@gmail.com

Homepage: <http://bit.ly/2vYzqMA>  
Website: <http://www.dst.unifi.it>  
Facebook:  
<> Twitter: :  
Linkedin:  
Youtube:  
Google Scholar:

Skype:  
Whatsapp:  
WeChat:

Gender: Male  
Date of Birth:  
Birth place:  
Nationality: Italian  
Driving license: B  
Marital status: Married

## SUMMARY

Professor of Engineering Geology at the University of Florence, Earth Sciences Department. Degree in Geology, MSc in Engineering Rock Mechanics at Imperial College of London and PhD in Engineering Geology. Expert of geological hazards and ground instability, monitoring technology, engineering geological characterization and modeling. Former head of the Department of Earth Sciences and past member of the Academic Senate of the University of Florence. Head of the Centre of Competence for geo-hydrological hazards at the University of Florence and member of the Major Risks National Committee of the Department of Civil Protection of the Italian Government. President of the Civil Protection Centre of University of Florence. Founder and Vice President for Europe of the International Consortium on Landslides (ICL). Member of the World Centre of Excellence on Landslide Risk Reduction of the International Programme on Landslides. Vice President of the International Consortium on Geo-disaster Reduction (ICGdR). Founder and Associate of the UNESCO Chair on Prevention and Sustainable Mitigation of Geo-hydrological Hazards. Adjunct Professor of the UNESCO Chair on Geoenvironmental Disaster Reduction at Shimane University (Japan). Awarded with the Order of Merit of the Italian Republic (4th Class Officer). Honorary Fellow of Misericordia di Firenze (the oldest voluntary organization in the world). Author of more than 500 scientific publications and holder of 4 industrial patents.

## CURRENT POSITION

Professor of Engineering Geology  
University of Florence, Department of Earth Sciences

## WORK EXPERIENCE

|            |  |
|------------|--|
| since 2005 | <b>Full Professor of Engineering Geology</b><br>University of Florence               |
| 2000-2005  | <b>Associate Professor of Engineering Geology</b><br>University of Florence          |
| 1996-2000  | <b>Researcher of Engineering Geology</b><br>University of Florence                   |
| 1995       | <b>Visiting researcher</b><br>Imperial College London                                |
| 1994-1995  | <b>Post-doc fellow</b><br>University of Florence                                     |
| 1994       | <b>Scientific collaboration</b><br>National Research Council                         |
| 1990-1993  | <b>Scientific collaboration</b><br>University of Florence, Department Earth Sciences |

## EDUCATION AND TRAINING

|           |   |
|-----------|---|
| 1995      | <b>Course in Soil Mechanics e Engineering Seismology</b><br>Imperial College London     |
| 1991-1994 | <b>PhD in Engineering Geology</b><br>University of Ferrara                              |
| 1991-1992 | <b>Diploma of Imperial College - DIC</b><br>Imperial College London                     |
| 1991-1992 | <b>Master of Science - MSc in Engineering Rock Mechanics</b><br>Imperial College London |
| 1984-1989 | <b>Degree in Geology</b><br>University of Florence                                      |

## PERSONAL SKILLS

|                       |   |
|-----------------------|---|
| Languages             | Mother tongue: Italian<br>Other languages: English (C2)   |
| Communicative skills  | Excellent communication skills acquired as a result of academic teaching, scientific conferences, training courses and media relations.   |
| Organizational skills | Excellent skills for coordination and administration of people, projects and budgets based on:<br>- management of academic structures and research facilities<br>- management of a research team of 50 people<br>- coordination and organization of more than 250 Research & Development projects |

|                     |   |
|---------------------|---|
| Professional skills | <ul style="list-style-type: none"><li>- Geohazard forecasting and prevention</li><li>- Landslide hazard and risk assessment</li><li>- Rock and soil characterization</li><li>- Stability analysis of natural and artificial slopes</li><li>- Remote sensing for rapid mapping</li><li>- Satellite monitoring of ground deformations</li><li>- Ground-based radar interferometry for monitoring and rapid mapping</li><li>- Laser scanning techniques for rock mass characterization and stability analysis</li><li>- Prediction of slope movements through the analysis of meteorological data</li><li>- Safeguard of cultural heritage at risk</li></ul> |
| Computer skills     | Excellent technical skills with computers, networks, and mobile devices   |

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## CERTIFICATIONS

|      |   |
|------|---|
| 2002 | <b>Qualification for full professor of Engineering Geology</b><br>Ministry of Education University and Research                 |
| 1999 | <b>Qualification for associate professor of Engineering Geology</b><br>Ministry of Education University and Research            |
| 1991 | <b>1st Airman - Military Service</b><br>Ministry of Defense   |
| 1990 | <b>Chartered Geologist (CGeol)</b><br>Qualification to the professional practice as Geologist<br>National Council of Geologists |

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## PUBLICATIONS

|  |   |
|--|---|
| Google Scholar<br><a href="http://goo.gl/hTCthl">http://goo.gl/hTCthl</a>              | Publications = 432<br>Citations = 7681<br>h-index = 45<br>i10-index = 152   |
| National MIUR<br>database<br><a href="http://bit.ly/1ODIKrn">http://bit.ly/1ODIKrn</a> | Total publications: 558<br>- Journal article: 203<br>- Journal abstract: 59<br>- Book chapter: 92<br>- Short introduction: 1<br>- Conference proceedings: 123<br>- Abstract in Conference proceedings: 54<br>- Book: 9<br>- Edited book: 6<br>- Patent: 8<br>- Map: 1<br>- Other: 2 |

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## PATENTS

|                   |  |
|-------------------|--|
| PCT/IB2014/064278 | An improved drone structure  |
| PCT/IB2014/001328 | Method for the creation of database of events having a mediatic echo in the internet |



|                   |  |
|-------------------|--|
| PCT/IB2014/061425 | Liquid sampler   |
| PCT/IB2014/061421 | Method for determining the orientation of a submerged surface and apparatus that carries out this method |

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## HONORS AND AWARDS

|            |  |
|------------|--|
| 2018       | Best paper award - Geoenvironmental Disasters, Springer<br><b>International Consortium on Geo-disaster Reduction (ICGdR)</b>   |
| 2017       | Honorary Fellow<br><b>Venerabile Arciconfraternita della Misericordia di Firenze</b>   |
| 2017       | Plaque of appreciation to the research group for all emergency events occurred in the period 2012-2017<br><b>University of Florence</b>  |
| 2017       | Recognition to the research group for the activities carried out for the Rigopiano avalanche emergency<br><b>City Council of Florence</b>  |
| 2017       | Recognition to the research group for the activities carried out for the Rigopiano avalanche<br><b>President of the Italian Republic</b>   |
| 2017       | Fellow<br><b>International Consortium for Geo-disaster Reduction</b>   |
| 2016       | UNESCO Chair Prevention and sustainable management of geo- hydrological hazards at the University of Florence. Recognition obtained by the research group.<br><b>UNESCO</b>  |
| 2014       | Order of Merit of the Italian Republic (4th Class Officer) awarded for meritorious service or achievement.<br><b>President of the Italian Republic</b><br><i>Decree of the President of the Italian Republic 27 December 2014</i>  |
| since 2009 | World Centre of Excellence on Landslide Risk Reduction (WCoE) for Earth observation advanced technologies for landslide monitoring, management and mitigation.<br>Awarded to the research group for four consecutive three-year terms<br><b>International Programme on Landslides</b><br><i>1<sup>st</sup> World Landslide Forum UNU Tokyo 2009</i><br><i>2<sup>nd</sup> World Landslide Forum FAO Rome 2011</i><br><i>3<sup>rd</sup> World Landslide Forum Beijing 2014</i><br><i>4<sup>th</sup> World Landslide Forum Ljubljana 2017</i> |
| since 2005 | Centre of Competence of the National Civil Protection Service.<br>Awarded to the research group and confirmed for six consecutive terms.<br><b>Presidency of the Council of Ministers - Department of Civil Protection</b><br><i>Decrees of the Head of Civil Protection Department n.252 of 26 January 2005, n.1922 of 15 May 2006, n. 4324 of 11 September 2007, n. 3593 of 20 July 2011, n. 3152 of 24 July 2013, n. 2616 of 19 June 2018</i>   |

## ACADEMIC SERVICES

|            |   |
|------------|---|
| since 2018 | President of the Centre for Civil Protection, Centre of Competence of the National Civil Protection Service<br><b>Università degli Studi di Firenze</b><br><i>Rector Decree Prot. 59139 (423) of 10 April 2018</i><br><i>Decree of the Head of Civil Protection Department n. 2616 of 19 June 2018</i>                                    |
| since 2018 | Member of the Interdisciplinary Centre for Conservation and Sustainable Management of Natural and Cultural Heritage COSP-SHeC<br><b>University for Foreigners Perugia</b>   |
| since 2018 | Adjunct Professor of the UNESCO Chair on Geoenvironmental Disaster Reduction<br><b>Shimane University, Japan</b>  |
| since 2016 | Founder and associate of the UNESCO Chair Prevention and sustainable management of geo- hydrological hazards at the University of Florence<br><b>UNESCO</b> (Agreement 7 June 2016)   |
| since 2015 | Founder<br><b>Geoapp spin-off company</b>   |
| since 2011 | Member of the Inter-university Centre for Land Sciences (CIST)<br><b>University of Florence</b>   |
| since 2009 | Member of the Scientific Council of the Centre for the study of Risk and Safety Conditions and Development Activities of Civil and Environmental Protection (CESPRO)<br><b>University of Florence</b>   |
| since 2008 | Member of the Steering Committee of the Earth Sciences Department<br><b>University of Florence</b>  |
| 2013-2015  | Member of the Council of the School of Mathematics, Physics and Natural Sciences<br><b>University of Florence</b>   |
| 2013-2014  | Representative of the University of Florence in the Board of Directors<br><b>Massa spin-off company</b>   |
| 2010-2015  | Representative of the University of Florence in the Board of Directors<br><b>Prato Ricerche Foundation</b>  |
| 2010-2012  | Elected Member of the Academic Senate as representative of the scientific area for two consecutive terms<br>Member of the University committees for Research, Departments, missions and Ethical Code<br><b>University of Florence</b><br><i>Rector Decree n. 88664 - 1605 of 22/12/2009</i><br><i>Rector Decree n. 1086 of 25/10/2010</i> |
| 2009-2015  | Member of the Scientific Council of the Centre for Cultural Heritage of the University of Florence (CABEC)<br><b>University of Florence</b>   |
| 2008-2010  | Member of the Steering Committee of the Centre for Information Services (CSIAF)<br><b>University of Florence</b><br><i>Del. Sen. Acc. del 28/2/2008 e Del. Cons. Amm. del 29/2/2008</i>   |
| 2008       | Member of the committee for the Triennial Program<br><b>Università degli Studi di Firenze</b>   |

2002-2008 Director of the Department of Earth Sciences, for two consecutive terms  
**University of Florence**  
*Rector Decree n°1163 of 27/12/2005*  
*Rector Decree n.1158 of 11/12/2002*

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## INSTITUTIONAL SERVICES

since 2019 Member of the Copernicus Cultural Heritage Task Force  
**Ministry of Cultural Heritage**

since 2018 Member of the institutional commission for the analysis and verification of the impact of the law n. 240 of 2010  
**Ministry of Education, University and Research**  
*Decree of Head of Department of Higher Education and Research n.2704 of 17 Oct. 2018*

since 2018 Representative of the Ministry of Education, University and Research in the Board of Directors  
**Ligurian District Marine Technologies**

since 2011 Member of the National Committee for the Forecast and Prevention of Major Risks of the Department of Civil Protection of the Italian Government  
**Presidency of the Council of Ministers - Department of Civil Protection**  
*Decree of the President of the Council of Ministers n. 6696 of 23/12/2011*  
*Decree of the President of the Council of Ministers n. 17A08255 of 27/10/2017*

since 2010 Expert Witness in Proceedings involving fatalities and injuries caused by landslides  
**Ministry of Justice**

2010-2017 Member of the Scientific Committee  
**Foundation of Geology of Tuscany**

since 2005 Head of the Center of Competence of the National Civil Protection Department established at the University of Florence  
**Presidency of the Council of Ministers - Department of Civil Protection**  
*Decrees of the Head of Civil Protection Department n.252 of 26 January 2005, n.1922 of 15 May 2006, n. 4324 of 11 September 2007, n. 3593 of 20 July 2011, n. 3152 of 24 July 2013, n. 2616 of 19 June 2018*

since 1996 Member of the expert group for technical assessment of risks for public safety  
**Presidency of the Council of Ministers - Department of Civil Protection**

2007-2012 Member of the committee on soil conservation  
**National Council of Geologists**

2002-2004 UNESCO-ICL Joint Scientific Mission in Machu Picchu  
**UNESCO**



## SCIENTIFIC AFFILIATIONS

|           |  |
|-----------|--|
| ICL       | <b>International Consortium on Landslides (ICL)</b><br>Vice-president for Europe since 2017<br>Director of the European Centre (ICL-Europe) since 2006     |
| ICGdR     | <b>International Consortium on Geo-disaster Reduction (ICGdR)</b><br>Vice-president since 2017   |
| GEO       | <b>Group for Earth Observations</b><br>Geohazards Community of Practice - Disasters Advisory group   |
| IPL       | <b>International Programme on Landslides</b><br>Former member of the Management Committee  |
| JIC-Nh    | <b>Joint International Centre on Natural Hazards</b>   |
| GADRI     | <b>Global Alliance of Disaster Research Institutes</b>   |
| FIST      | <b>Italian Federation of Earth Sciences</b><br>Member of the Panel Research Assessment   |
| GSA       | <b>Geological Society of America</b>   |
| CNIT      | <b>Consorzio Nazionale Inter-universitario per le Telecomunicazioni</b><br>Associated member   |
| H2CU      | <b>Honors Centre of Italian Universities for Scientific and Academic Collaboration Italy-USA</b><br>Former member of the Scientific Committee              |
| EGU       | <b>European Geophysical Union</b>  |
| AGU       | <b>American Geophysical Union</b>  |
| AEG       | <b>Association of Engineering Geology</b><br>Former member of the Steering Committee   |
| IGOS      | <b>Integrated Global Observing Strategy</b><br>Geohazards  |
| AIGA      | <b>Italian Association of Applied Geology</b><br>Founder and member of the Steering Committee  |
| IAEG      | <b>International Association for Engineering Geology and the Environment</b><br>Former member of the Steering Committee of the Italian Section (2002-2010) |
| ISSMGE    | <b>International Society of Soil Mechanics &amp; Geotechnical Engineering</b>  |
| ISRM      | <b>International Society of Rock Mechanics</b>   |
| AGI       | <b>Italian Geotechnical Society</b>  |
| SGI       | <b>Italian Geological Society</b>  |
| CNR-GNDCl | <b>National Research Council Group for Prevention of Hydro-geological Disasters</b><br>Coordinator of the Research Unit 2.14                               |
| OdG       | <b>Professional Order of Geologists</b><br>Regional register of Tuscany (n. 248)   |

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**EDITORIAL & REVIEW BOARDS**

|                                   |  |
|-----------------------------------|--|
| International scientific journals | Landslides - Springer - Associate Editor   |
|                                   | Geoenvironmental Disasters - Springer - Associate Editor-in-Chief                      |
|                                   | Remote Sensing in Earth System Science, Solid Earth division - Springer - Ass. editor  |
|                                   | Remote Sensing - MDPI - Section Associate Editor                                       |
|                                   | Italian Journal of Engineering Geology and Environment - Advisory board                |
|                                   | Ecological Safety and Natural Resources - Nat. Ac. Sci. Ukraine - Foreign editor       |
|                                   | Sci - Open Access Journal - MDPI - Advisory Board                                      |
|                                   | Scientific Reports - Nature  |
|                                   | PLOS ONE - Public Library of Science   |
|                                   | Catena - Elsevier  |
|                                   | Springer Nature book series  |
|                                   | Acta Geodynamica et Geomaterialia - Czech Academy of Sciences                          |
|                                   | Bulletin de la Société Géologique de France  |
|                                   | Bulletin of Volcanology and Geothermal Research - Springer                             |
|                                   | Disasters - John Wiley and Sons  |
|                                   | Earth Surface Processes and Landforms - John Wiley and Sons                            |
|                                   | Engineering Geology - Elsevier   |
|                                   | Environmental Earth Sciences - Springer  |
|                                   | Environmental Modeling and Software - Elsevier   |
|                                   | Geology - Geological Society of America  |
| National scientific journals      | Geomorphology - Elsevier   |
|                                   | Natural Hazards and Earth System Sciences - European Geosciences Union                 |
|                                   | Quaternary International - Elsevier  |
| International project assessment  | Rock Mechanics and Rock Engineering - Springer   |
|                                   | Geologia Tecnica e Ambientale - Consiglio Nazionale dei Geologi - Scientific Committee |
|                                   | Bollettino della Società Geologica Italiana  |
|                                   | Giornale di Geologia Applicata - Federazione Italiana di Scienze della Terra           |
|                                   | UNESCO   |
|                                   | UNISDR International Strategy for Disaster Reduction                                   |
|                                   | National Science Foundation (USA)  |
|                                   | Research Councils UK NERC - Natural Environment Research Council                       |
|                                   | Royal Society  |
|                                   | European Research Council (ERC)  |
|                                   | Netherlands Organization for Scientific Research (NWO)                                 |
|                                   | Swiss National Science Foundation  |
|                                   | Austrian Academy of Sciences   |
|                                   | GACR Czech Science Foundation  |
|                                   | Institut de France   |
|                                   | Belgian Science Policy Office  |
|                                   | Portuguese Research Council (FCT)  |
|                                   | National Research, Development and Innovation Office, Hungary (NKFIH)                  |
|                                   | JTC-1 Joint ISSMGE, ISRM and IAEG Technical Committee on Landslides                    |
|                                   | Southwest Jiaotong University, Chengdu (China)   |
| National project assessment       | Università Italo Francese  |
|                                   | Ministero dell'Istruzione dell'Università e della Ricerca                              |
|                                   | Agenzia Nazionale di Valutazione del sistema Universitario e della Ricerca             |
|                                   | Università di Siena, Bologna, Perugia<br>Cassa di Risparmio di Padova e Rovigo         |



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## TEACHING

- since 2017 **Master degree of Geo-engineering**  
University of Florence - School of Engineering
- since 2011 **PhD School in Earth Sciences**  
Universities of Florence, Pisa and Siena
- since 2000 **Undergraduate Course of Geology**  
University of Florence - School of Mathematics, Physics and Natural Sciences
- 2013 **Master ESPRI - Forecast and prevention of geo-hydrological risk**  
University of Calabria and Consorzio Interuniversitario per l'Idrologia CINID
- 2009-2013 **International PhD Course on Risk Management**  
University of Florence
- 2007-2010 **Advanced training courses on GIS applications, Radar Interferometry, Laser Scanner and Rapid Assessment of Landslide Risk**  
University of Florence - Department of Earth Sciences
- 2005-2009 **Master in Civil and Environmental Engineering for Civil Protection, risk and emergency management**  
University of Palermo - Faculty of Engineering
- 2003-2010 **Advanced training courses in Archaeological Restoration**  
University of Florence - Faculty of Architecture
- 2003-2005 **Prevention and safety in quarrying and rock excavation**  
University of Florence - Department of Earth Sciences
- 2002-2008 **Master in Civil Protection**  
University of Florence - Faculty of Medicine
- 2002-2003 **Master on Hydraulic Risk**  
University of Firenze - Faculty of Engineering
- 2000-2017 **Master degree in Geological Sciences and Technology**  
University of Florence - Faculty School of Mathematics, Physics and Natural Sciences
- 2002-2010 **Undergraduate Course of Technology for the Conservation and Restoration of Cultural Heritage**  
University of Florence - Faculty of Mathematics, Physics and Natural Sciences
- 2001-2006 **Advanced training course in prediction and prevention of geological and geo-environmental hazards**  
Director and project manager of 7 editions  
University of Florence - Department of Earth Sciences
- 1999-2011 **PhD School in Earth Sciences**  
Universities of Florence
- 1996-2000 **Lecturer of Engineering Geology**  
University of Florence - Faculty School of Mathematics, Physics and Natural Sciences, Architecture and Engineering
- 1992-1996 **Assistant teacher of Engineering Geology**  
University of Florence - Faculty School of Mathematics, Physics and Natural Sciences, Architecture and Engineering

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Prof. Nicola Casagli

Nicola Casagli