

Curriculum Vitae

Last update May 2016

NAME: **Stefano Nativi**
ADDRESS: Institute of Atmospheric Pollution Research, National Research Council of Italy, Rome, Italy
Telephone: (+39) 055 5226 590 cell. +39 340 6428
Fax:
Email: stefano.nativi@cnr.it nativi@iia.cnr.it
Web: <http://www.uos-firenze.iia.cnr.it>

RECENT RESEARCH INTERESTS:

- **Earth and Space System Informatics:**
Multidisciplinary interoperability; System of Systems or metasystems; virtual research infrastructures.
- **Brokering approach, architectures, and technologies.**
Intermediation of data/information systems; System of Systems or Metasystems.
- **Open Science and Data Science:**
Open Data Access; Big Data; from Data to Knowledge; multidimensional models for scientific data.
- **Geospatial information data models and interoperability protocols:**
Standardization of coverage and feature based data models; semi-structured encoding.

He is author of about 70 ISI and Scopus indexed manuscripts and of more than 10 book chapters.

PROFESSIONAL PREPARATION:

University of Florence (Italy)	Master degree (Laurea) in Electronic Engineering	1990
University of Padua	Professional Engineer	1990
University of Florence (Italy)	Ph.D. "Methods and Technologies for the Environmental Monitoring"	1994
Bristol University (UK)	Post-Doctoral Research Fellowship: "Remotely sensed data fusion and passive microwave techniques for atmospheric water cycle study"	1994-1995
UNIDATA of UCAR/NCAR (USA)	Distinguish Visitor as "Expert of Geo-Information Standard and Data Model"	2001-2002

POSITIONS HELD:

2016–	Member of the ISDE (International Society for Digital Earth) council
2016–	Member of the Italian delegation for the SCAR, spokesperson for the topic: "Data Management"
2015–	Member of Expert Panel of the Copernicus Data Dissemination and Big Data Strategy
2015–	Member of the Science and Technical Advisory Committee (STAC) of the Copernicus Marine Environment Monitoring Service (CMEMS).
2011–	Head of the Florence Division of the Institute of Atmospheric Pollution Research of the National Research Council of Italy. Scientific coordinator of the "Earth and Space Science Informatics Laboratory (ESSI-lab)" of CNR-IIA
2008–2013	Co-founder and President (for 5 years) of the Earth and Space Science Informatics (ESSI) Division of the European Geosciences Union (EGU)
2006-2012	External Lecturer of <i>Geoinformation Infrastructure in Earth Observation and Earth System Science</i> , master in Geomatics, Friedrich Schiller University in Jena – Germany
2005–2011	Scientific coordinator of the Operational Unit at IMAA-CNR of the National Inter-university Consortium for Telecommunication (CNIT).
2004-2012	Professor of <i>Systems for land management</i> , Master in Informatics, University of Padua -Italy
2003–2011	Professor of <i>Web services management</i> , Information Engineering degree, University of Florence -Italy
2003–	PI and co-PI of Research & Development projects funded by the European Commission and ESA
2001–2003	Visiting researcher at UNIDATA/UCAR/NCAR in Boulder (Colorado)
1998–2001	Professor of <i>Software engineering</i> , degree in Informatics, University of Padua -Italy
1996–2001	Professor of <i>Information Systems</i> , Environment and natural Resources Engineering degree, Univ. of Florence -Italy
1994–1996	Post-doctoral Research Assistant at the University of Bristol (UK) – Remote Sensing Unit.

RELEVANT SYNERGISTIC ACTIVITIES:

International

- Co-chair of the OGC Earth System Science Domain WG, 2011–

- Co-chair of the netCDF Standardization WG, 2011–
- Chair of the “Brokering Governance” WG and of the “Brokering” Interest Group (IG) of the Research Data Alliance (RDA), 2013–
- Member of the Steering Committee of the e-infrastructure CRA of the Belmont Forum, 2013–
- Member of the Infrastructure Implementation Board of GEO-GEOSS, 2012–2015 and now member of the GEO GD-07 (GEOSS Common Infrastructure Development) task, 2016–
- Co-chair of the GEOSS GD-09 (GEOSS Knowledge Base) Task, 2016–
- Co-chair of the Science & Technology Committee of GEOSS, 2009–2012
- Member of the Open Data Access WG of Science Europe, 2012–
- Member of the executive committee of the Earth and Space Sciences Informatics Division of the American Geophysics Union (AGU), 2009–
- President (and co-founder) of the Earth and Space Sciences Informatics Division of the European Geosciences Union (EGU), 2008–2013
- Member of the INSPIRE Metadata core drafting team, 2006–

National

- Member of the “Open Science” WG of the CNR, representing the “Earth System and Environmental Monitoring” Department, 2016–
- Coordinator of the “Data and Interoperability” interdepartmental activities for the Earth System Science and Environmental Dept. of CNR, 2012–
- Member of the Scientific Committee of NextData (Project of strategic interest – PNR 2011-2013) and coordinator of the WP2.7: General Portal for data access, 2013–
- Member of the GEO Italy coordination team, 2008–
- PI of the CNR Working Group for the design and implementation of a cyber-infrastructure for the National Polar Data management and sharing, 2010–

MOST RECENT and SIGNIFICANT R&D INTERNATIONAL PROJECTS

Title	Funding agency	Role	Period
ENERGIC-OD: European NETwork for Redistributing Geospatial Information to user Communities - Open Data (negotiation phase)	European Commission	PI	2014-2017
The European Network for Observing Our Changing Planet (ERA-Planet)	European Commission	Co-PI	2015-2018
BYTE: Big data roadmap and cross-disciplinary forum for innovation in Europe	European Commission	Co-PI	2014-2016
EMODnet (The European Marine Observation and Data Network) Data Ingestion	European Commission	Co-PI	2016-2018
ConnectinGEO: Coordinating an Observation Network of Networks Encompassing satellite and IN-situ to fill the Gaps in European Observations	European Commission	Co-PI	2015-2017
ECOPOTENTIAL: Improving Future Ecosystem Benefits through Earth Observations	European Commission	Co-PI	2015-2018
B-CUBE: A Broker Framework for Next Generation Geoscience - Brokering Building Blocks	NSF	Co-PI	2013-2015
Prod-Trees: Enriching EO Ontology Services Using Product Trees	European Space Agency	PI	2013-2016
RECODE: Policy RECommendations for Open Access to Research Data in Europe	European Commission	Co-PI	2013-2015
EGIDA: Coordinating Earth and Environmental cross-disciplinary projects to promote GEOSS	European Commission	PI	2010-2013
MED-SUV: MEDITerranean SUPersite Volcanoes	European Commission	Co-PI	2013-2016
SeaDataNet 2: Pan-European Infrastructure for Ocean & Marine Data Management	European Commission	Co-PI	2012-2015
IASON: Fostering sustainability and uptake of research results through Networking activities in Black Sea & Mediterranean areas	European Commission	Co-PI	2013-2015
EO-POWER: Earth Observation for Economic Empowerment	European Commission	Co-PI	2013-2015
EUROGEOSS: European approach to GEOSS	European Commission	Co-PI	2009-2012
UncertWeb: The uncertain enabled model web	European Commission	Co-PI	2010-2013
EARTHSERVER: European Scalable Earth Science Service Environment	European Commission	Co-PI	2011-2014
GEOWOW: GEOSS interoperability for Weather, Ocean and Water	European Commission	Co-PI	2011-2014
MEDINA: Marine Ecosystem Dynamics and Indicators for North Africa	European Commission	Co-PI	2011-2014

AWARDS

- 1990: Post-laurea grant appointed by the Bull System Italia.
- 1994: Post-Doc grant appointed by the European Commission: Human Capital and Mobility (HCM Programme).
- 2001: Visiting scholar grant appointed by UNIDATA/UCAR/NCAR.
- 2009: SIF Award medal appointed by the IEEE ICEO.
- 2014: Geospatial World Innovation Award for “Technology Innovation in Interoperability” for the “GEOSS Brokering Framework”.