



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Salvatore STRAMONDO**
Work Address(es) Via di Vigna Murata 605, 00143 Rome, Italy
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Fax(es) +39 06 51860541
E-mail salvatore.stramondo@ingv.it
Nationality
Date of birth
Gender

Occupational field **Satellite Remote Sensing / SAR Interferometry / Optical Remote Sensing / Seismic Surveillance and Monitoring / Seismology / Volcanoes / Environment / SAR and Optical satellite image processing / Active Tectonics / Deformation measurement**

Work experience

Dates	January 1st, 2024 – Today
Occupation or position held	Research Director National Earthquake Observatory
Main activities and responsibilities	Responsible for national and international projects and agreements
Name and address of employer	Istituto Nazionale di Geofisica e Vulcanologia Via di Vigna Murata 605, 00143 Rome, Italy
Type of business or sector	Governmental Research Institute
Dates	February 2017 – December 31, 2023
Occupation or position held	Executive Director National Earthquake Observatory
Main activities and responsibilities	Responsible for the Seismic Surveillance h24 service of Italy, Responsible for the Tsunami h24 Alert in the Euro-Mediterranean region. Responsible of daily activities of about 170 Researchers, Technologists, Scientists, Technicians.
Name and address of employer	Istituto nazionale di Geofisica e Vulcanologia Via di Vigna Murata 605, 00143 Rome, Italy
Type of business or sector	Governmental Research Institute
Dates	June 2014 – February 2017
Occupation or position held	Satellite Earth Observation Data unit - Head
Main activities and responsibilities	Responsible of Satellite EO unit composed by 30 Researchers, Technologists and Technicians. Project Coordinator APHoRISM FP7
Name and address of employer	Istituto nazionale di Geofisica e Vulcanologia

Type of business or sector	Via di Vigna Murata 605, 00143 Rome, Italy Governmental Research Institute
Dates	January 2010 – May 2014
Occupation or position held	Senior Researcher
Main activities and responsibilities	SAR Interferometry application to active tectonics and volcanoes. TERRAFIRMA ESA GSE Project – Tectonic Theme Leader. Project Coordinator APhoRISM FP7
Name and address of employer	Istituto nazionale di Geofisica e Vulcanologia Via di Vigna Murata 605, 00143 Rome, Italy
Type of business or sector	Governmental Research Institute
Dates	2003 – 2009
Occupation or position held	Adjunct Professor of Remote Sensing and Topography
Name and address of employer	University of Calabria Arcavacata di Rende, Italy
Type of business or sector	University
Dates	October 1997 – December 2009
Occupation or position held	Researcher
Main activities and responsibilities	SAR Interferometry data processing, integration with ground data and analysis
Name and address of employer	Istituto nazionale di Geofisica e Vulcanologia Via di Vigna Murata 605, 00143 Rome, Italy
Type of business or sector	Governmental Research Institute
Type of business or sector	Governmental Research Institute
Dates	January 2000 – April 2000
Occupation or position held	Invited Researcher
Main activities and responsibilities	SAR Interferometry data processing, integration with ground data and analysis
Name and address of employer	JPL – Jet Propulsion Laboratory, Pasadena, USA
Type of business or sector	Research-Governmental Institute
Dates	January 1998 – April 1998
Occupation or position held	Invited Researcher
Main activities and responsibilities	SAR Interferometry courses at CNES and applied InSAR research activities at IPGP
Name and address of employer	IPGP –Institute De Physique du Globe Paris and CNES – French Space Agency
Type of business or sector	Research-Governmental Institute
Dates	June 1997 – September 1997
Occupation or position held	Invited Researcher
Main activities and responsibilities	SAR Interferometry processing
Name and address of employer	CNR-IRECE Via Diocleziano, Napoli, Italy
Type of business or sector	Governmental Research Institute

Education and training

Dates	November 2020
Title of qualification awarded	National Scientific Qualification - Abilitazione Scientifica Nazionale

Level in national or international classification

Full Professor - Professore di I Fascia

Dates

November 2003 – June 2007

Title of qualification awarded

PhD in Geoinformation

Principal subjects/occupational skills covered

Artificial Neural Networks for seismic source parameter inversion

Name and type of organisation providing education and training

University Tor Vergata, Rome

Level in national or international classification

PhD

Dates

1989 – February 1996

Title of qualification awarded

Electronic engineer

Principal subjects/occupational skills covered

Ground Probing Radar

Name and type of organisation providing education and training

University LA SAPIENZA, Rome

Personal skills and competences

Mother tongue(s)

Italian

Other language(s)

Self-assessment

European level (*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A2	Proficient user	A2	Proficient user	A1	Proficient user	A1	Proficient user	A1	Proficient user

(*) [Common European Framework of Reference for Languages](#)

University teachings

- 1- Professor at the Dottorato in Geofisica, Dipartimento di Fisica, Università di Bologna, XVIII, XIX, XX, A.A. 2003-2004-2005-2006.
- 2- Professor at the *Master in Ingegneria dell’Emergenza*, A.A. 2003-2004, Dipartimento di Informatica e Sistemistica, Università degli Studi di Roma La Sapienza.
- 3- Professor at the *Master in Ingegneria dell’Emergenza*, A.A. 2004-2005, Dipartimento di Informatica e Sistemistica, Università degli Studi di Roma La Sapienza.
- 4- Professor at the short course *Applicazioni del Telerilevamento satellitare in campo ambientale*, Università del Lazio Meridionale, Facoltà di Ingegneria, A.A. 2004 – 2005, May 24, 2005
- 5- Professor at the short course *Applicazioni del Telerilevamento satellitare: alcuni esempi con tecnica DInSAR*, Università del Lazio Meridionale,

Facoltà di Ingegneria, A.A. 2005 – 2006, June 05, 2006

- 6- Professor at the short course *Applicazioni del Telerilevamento satellitare in campo ambientale*, Università del Lazio Meridionale, Facoltà di Ingegneria, A.A. 2006 – 2007, May 28, 2007.
- 7- Professor at the course *Metodi e Applicazioni del Telerilevamento*, Laurea in Scienze Geologiche, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Parma, June 1, 2007
- 8- Contract Professor at the *Short Course European School of Advanced Studies in Reduction of Seismic Risk (ROSE)*, April 16 -17, 2008
- 9- Professor - *Complementi di Tecniche Avanzate di Geodesia e Telerilevamento*, Dipartimento di Fisica, Università della Calabria, A.A. 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009.
- 10- Professor - *Principi di Cartografia e Topografia*, Dipartimento di Fisica, Università della Calabria, A.A. 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009.
- 11- Professor at the Master II Livello - *Geoinformazione e Sistemi di Informazione Geografica a supporto dei processi di Gestione Sostenibile del Territorio e della Sicurezza Territoriale*, Università degli Studi di Roma - "Tor Vergata," Facoltà di Ingegneria, AA 2010-2011
- 12- Professor at the course *Monitoraggio versanti instabili*, Centro di ricerca Previsione, prevenzione e controllo dei rischi geologici della Sapienza (Ceri), February 2-5, 2011
- 13- Contract Professor - *Interferometria SAR: teoria ed applicazioni in sismologia e vulcanologia*, Università degli Studi Mediterranea di Reggio Calabria, September 11-12, 2014
- 14- Professor at the Master II Livello - *Geoinformazione e Sistemi di Informazione Geografica a supporto dei processi di Gestione Sostenibile del Territorio e della Sicurezza Territoriale*, Università degli Studi di Roma - "Tor Vergata," Facoltà di Ingegneria, AA 2013-2014
- 15- Professor at the *SAR Advanced Workshop SAC-European Space Agency ESRIN – Frascati*, November 9-20, 2015

International projects

- 1- **Principal investigator** Category-1 project, European Space Agency (ESA) and German Aerospace Center (DLR): *Multitemporal InSAR monitoring of Rome city and integration with ground based data* (Cat-1 3258), since 2006
- 2- **Principal investigator** Category-1 project, European Space Agency (ESA) and German Aerospace Center (DLR): *InSAR time series for deformation pattern investigation in the Emilia-Romagna Region and the Po Plain* (Cat-1 3840), since 2006
- 3- **Principal investigator** Category-1 project, European Space Agency (ESA) and German Aerospace Center (DLR) *Urban damage detection and SAR interferometry applications in high risk seismic areas* (Cat-1 3682), since 2006
- 4- **Principal investigator** Category-1 project, European Space Agency (ESA), *Slow surface movements detection and damage assessment from InSAR and optical data*, since 2006.
- 5- **Responsible Work Package** european project *MIA-VITA, Mitigate and Assess risk from Volcanic Impact on Terrain and human Activities*, European Commission under the 7th Framework Programme for Research and Technological Development, Area “Environment”, Activity 6.1 “Climate Change, Pollution and Risks, 11 october 2008 – 11 november 2012
- 6- **Principal Investigator and Responsible TERRAFIRMA ESA** *Extension phase, Tectonic Theme, “Pan-European ground motion information service in support of policies aimed at protecting citizen against natural and anthropogenic ground motion hazards”*. GMES Service Element, European Space Agency (ESA), february 2009– december 2012.
- 7- **Responsible Work Package SAFER, Service and Application For Emergency Response**. Progetto focalizzato nel rispondere a situazioni di emergenza dovute a eventi meteo-climatici, a eventi sismici/vulcanici/idrogeologici, ad eventi causati dall’uomo e disastri umanitari. 7th Framework Programme under the Theme Space to implement the Emergency Response Core Service for GMES, june 2007- december 2012.
- 8- **Coordinator WG8** Satellite Data progetto EPOS (European Plate Observing System) Preparatory Phase, Science Plan Team member, 1 november 2010 – 31 october 2014.
- 9- **Responsible and Principal Investigator** european project

AphoRISM - Advanced Procedures for volcanic and Seismic Monitoring, European Commission 7th Framework Programme, SPACE, Remote Sensing Methods, 1 december 2013 – 31 december 2016.

10- **Principal Investigator** *MEMPHIS - Multi Scale and Multi Hazard Mapping Space based Solutions*, European Space Agency, 9 april 2014 – 9 october 2016

11- **Principal Investigator** *L-Band SAR Applications and Requirements Consolidation Study*, European Space Agency, 2 may 2018 – 1 october 2019

12- **Referee international projects** The influence of Fault structures on ground displacements and wave propagation studied by Remote sensing and seismological experiments, visualised in Extended Reality (XR), University of Liegi, 2021

National projects

- **Principal investigator** project *Premiale 2009 Studio multidisciplinare della fase di preparazione di grandi terremoti (Multidisciplinary study of the preparatory phase of strong earthquakes)*, 6 dicembre 2011 – 31 dicembre 2012.
- **Work Package responsible** project *SIGRIS, Integrated System for Seismic Risk Management*, Italian Space Agency, giugno 2007- giugno 2011.
- **Project Quality and Configuration Control Officer** project *Volcanic Risk Surveillance*, Italian Space Agency, giugno 2007- giugno 2011
- **Operative Unit Leader** *PRIN 2009 - Analisi, monitoraggio e controllo di dissesti geologici interagenti con attività antropiche (Analysis, Monitoring and Control of geological instabilities interacting with anthropogenic activities)*, 2009-2011

International Duties

- 1- **Selected Candidate** – *Fifth On-Site Inspection (OSI) Introductory Course, Provisional Technical Secretariat (PTS) of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organisation (CTBTO)*, Vienna, 2-6 July 2001
- 2- *On-Site Inspection (OSI) Shallow Geophysical Equipment Testing and Training Curriculum Development Activity*, Provisional Technical Secretariat (PTS) of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organisation (CTBTO), Leicester, UK, 26 July – 6 August 2004
- 3- **Member of GEO** – *Group on Earth Observation, Scientific Advisory Committee (SAC), Earthquake subcommittee*, dal 2007

- 4- **Member of the MARMARA REGION Supertite**, Geohazard Supersites and Natural Laboratories, since 2014
- 5- **Member of the Vesuvius – Campi Flegrei Supersite**, Geohazard Supersites and Natural Laboratories, since 2014
- 6- **International Expert** on *GEOSPHERE*, presso Remote Sensing and Earth System Dynamics HGF Alliance, dal 7/10/2013 al 30/06/2017
- 7- **National Delegate from the Italian Government at the International Seismic Safety Centre, Division of Nuclear Installation Safety**, Department of Nuclear Safety and Security, IAEA – 27-31 January 2014.
- 8- **National Delegate from the Italian Government at the International Seismic Safety Centre, Division of Nuclear Installation Safety**, Department of Nuclear Safety and Security, IAEA – 16-19 March 2015.
- 9- **Principal Investigator** at the European Space Agency (ESA), since 1999
- 10- **Principal Investigator** at the German Aerospace Center (DLR), since 2000
- 11- **Principal Investigator** at the *Japan Aerospace Exploration Agency (JAXA)*, 24 May 2016 - 23 April 2020
- 12- **Member of the Asian Council of Science Editors**, since 21/03/2021

National Duties

- 1- **Member of the Board of Directors** Associazione Italiana di Telerilevamento, January 2011 – December 2015
- 2- **Member of the Board of Directors** of the Tsunami Warning Center (Centro Allerta Tsunami), February 21, 2017 - today
- 3- **Member of the Teaching Board** of the Corso di Dottorato di Ricerca in Scienze della Terra e del Mare, DiSTeM, Università di Palermo, September 6, 2017 - Today
- 4- **Responsible Framework Agreement** INGV – ENI S.p.A., since June 16, 2018 - Today
- 5- **Responsible Framework Agreement** INGV-ENEA, since July 25, 2018.
- 6- **Member of the joint committee** INFN-INGV, since September 2019.
- 7- **Member of the joint committee** OGS-INGV, since December 2019.
- 8- **Responsible framework agreement** INGV – Arma dei Carabinieri, since May 22, 2019.

- 9- **Responsible collaboration agreement** Istituto Nazionale di Geofisica e Vulcanologia (INGV) and Comune di Rende, since November 27, 2019.
- 10- **Member of the steering committee**, *for the Corsi di Studio triennali in Fisica e Scienza dei Materiali Innovativi e per le Nanotecnologie e i Corsi di Studio magistrali in Fisica e Scienza ed Ingegneria dei Materiali Innovativi e Funzionali*, Consiglio di Dipartimento di Fisica, Università della Calabria, since July 7, 2020
- 11- **President of the joint committee** INFN-INGV, appointed by a joint decree of both the Presidents of INFN and INGV, since September 28, 2020
- 12- **President of the joint committee OGS-INGV**, appointed by a joint decree of both the Presidents of OGS and INGV, since January 27, 2021
- 13- **Member of the Teaching Board** - Corso di Dottorato in Metodi, Modelli e Tecnologie per l'Ingegneria, Università degli Studi di Cassino e del Lazio Meridionale, since June 21, 2021
- 14- **Member of the Coordination Committee of the Memorandum of Understanding** MIMS (Ministero delle Infrastrutture e della Mobilità Sostenibile)-ENEA-INGV, since August 9, 2022

Awards

- 1- IEEE Geoscience and Remote Sensing Society 2015 J-STARS Prize Paper Award
- 2- Nomina a Senior Member dell'Institute of Electric and Electronic Engineers, luglio 2008
- 3- Top 100 Scientific Reports Earth science papers in 2017 - 'New insights into earthquake precursors from InSAR', 81. Moro, M; Saroli, M; Stramondo, S; Bignami, C; Albano, M; Falcucci, E; Gori, S; Doglioni, C; Polcari, M.

Bibliometry

Author of more than 100 papers published on international journals and more than 140 talks and keynotes in international congresses. Papers and talks/keynotes concern the use of Remote Sensing data and techniques in geosciences and human activities.

- H-index "Web of Science" 30;
- H-index Google Scholar 36;
- H-index Scopus 30

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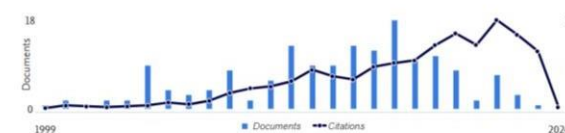
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Book Chapters

- 1- Un viaggio attraverso la terra (CD ROM) AUDIO-VISUAL CD ROM, Publisher: INGV, Editor: INGV, Gennaio 2004
- 2- Lead Author and Section Chair, Remote Sensing in Seismology, Encyclopedia of Earthquake Engineering, Publisher: Springer Berlin, DOI: 10.1007/978-3-642-36197-5_217-1
- 3- Using Earthquakes to Uncover the Earth's Inner Secrets, book: Earth Science, pp.53-59, December 2011, DOI: 10.1201/b12219-6
- 4- SAFER Response to Eyjafjallajokull and Merapi volcanic eruptions, Let's Embrace Space, 10.2769/1549, Editors: European Union, DG Enterprise and Industry, pp.212-222
- 5- Current geodetic deformation of the Colli Albani volcano: A review, The Colli Albani Volcano, Chapter: Volcanic hazard, Publisher: Geological Society of IAVCEI, Editors: R. Funciello and G. Giordano, pp.299-310, 2010.

- 6- Lead Author del Capitolo “Seismic Hazards” del volume: Ph. Bally Ed. (2012), Scientific and Technical Memorandum of The International, Forum on Satellite EO and Geohazards, 21-23 May 2012, Santorini Greece. doi:10.5270/esa-geo-hzrd-2012 <http://esamultimedia.esa.int/docs/EarthObservation/Geohazards/esa-geo-hzrd-2012.pdf>
- 7- Montuori A., Luzi G., Stramondo S., Casula G., Bignami C., Bonali E., Bianchi M.G., Crosetto M., Combined use of ground based systems for cultural heritage conservation monitoring, Contributo al libro Digital Methods and Remote Sensing in Archaeology: Archaeology in the Age of Sensing, pp. 23 e 24, Springer 2016.

PhD supervision

- Radar And Optical Remote Sensing Techniques For Earthquake Damage Mapping, Student: Marco Chini, University of Bologna.
- SAR Interferometry applied to the investigation of earthquake source, Student: Marco Polcari, University of Bologna
- Time Series Analysis of SAR Images using Persistent Scatterer (PS), Small Baseline (SB) and Merged Approaches in Regions with Small Surface Deformation, Student: Seyfallah BOURAOUI, University of Strasbourg, France

Visiting scientist

- On-Site Inspection (OSI) Shallow Geophysical Equipment Testing and Training Curriculum Development Activity, Leicester, UK, 26 July – 6 August 2004, organized by the Provisional Technical Secretariat (PTS) of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organisation (CTBTO)
- Fifth On-Site Inspection (OSI) Introductory Course, organizzato dal Provisional Technical Secretariat (PTS) of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organisation (CTBTO) in Vienna, Austria, 2-6 July 2001.
- Invited lecturer Indo-Italian Workshop on Recent Developments in SAR Interferometry Technology and Application (Bombay, India, March 28 – April 6, 2001).
- Key lecturer at GeoMonitoring 2012 Workshop, (March 14-15, University of Hannover): Satellite Earth Observation: state of art and perspectives for the GeoHazard scientific community
- Key Lecturer, 2014, HGF Alliance “Remote Sensing and Earth System Dynamics” (EDA), 2014 – GEOSPHERE: Natural disasters and human activities: detecting signatures and measuring effects from Remote Sensing

Additional information

- 1- Convenor e Session Chair, European Geophysical Union (EGU) per Geology and Natural Hazards, international meeting 2007 and 2008.
- 2- Scientific Committee Member, 6TH INTERNATIONAL WORKSHOP ON REMOTE SENSING FOR DISASTER MANAGEMENT APPLICATIONS, Pavia, Italy, September 11-12 2008
- 3- Session Organizer e membro del Technical Program Committee di IGARSS - International Geoscience and Remote Sensing Symposium, since 2011.
- 4- Fringe 2017, Scientific Committee member, 2017
- 5- Fringe 2017, Session Chair: Italy 2016 Earthquake sequence, 8 June 2017, Helsinki
- 6- Membro del Technical Program Committee, IEEE International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES), 20-22 September 2018, Indonesia
- 7- Reviewer IEEE International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES), November 24-25 2022
- 8- Membro del Technical Committee del Fifteenth International Conference on Advances in Satellite and Space Communications - SPACOMM 2023, 24-28 April 2023
- 9- Technical Program Committee (TPC) 8th Asia-Pacific Conference on Synthetic Aperture Radar (AP SAR), Bali, 23-27 October 2023.
- 10- Referee for the following international reviews: Tectonophysics, Journal of Geophysical Research, Geophysical Research Letters, International Journal of Remote Sensing, IEEE Transactions on Geosciences and Remote Sensing, Geomorphology, Photogrammetric Engineering and Remote Sensing, Natural Hazards and Remote Sensing of Environment.

Editorial Experience

- 1- **Editor** international journal *Remote Sensing*, since May 2009
- 2- **Associate Editor**, *IEEE Geoscience and Remote Sensing Letters*, since May 2009
- 3- **Associate Editor**, *International Journal of Applied Earth Observation and Geoinformation*, since March 2012
- 4- **Editor Special Issue** "COSMO-SkyMed First and Second Generation Exploitation", *IEEE Journal of Selected Topics of Applied Remote Sensing*, 2014
- 5- **Editor** - *Journal of Remote Sensing & GIS*, since 2015

- 6- **Member of the Comitato Editoriale Nazionale** presso l'Istituto Nazionale di Geofisica e Vulcanologia, January 2005 - January 2018
- 7- **Section Board member**, *Remote Sensing Letter*, since May 2020
- 8- **Editorial Board Member**, *Geomatics*, since November 2021

Rome, January 19th, 2024

Salvatore Stramondo

Le informazioni contenute nel presente documento, Curriculum Vitae et Studiorum, sono rese sotto la personale responsabilità del sottoscritto ai sensi degli artt. 46 e 47 del D.P.R. 28 dicembre 2000 n. 445, consapevole della responsabilità penale prevista dall'art. 76 del medesimo D.P.R., per le ipotesi di falsità in atti e dichiarazioni mendaci