



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **STRAMONDO Salvatore**
Address(es) Via di Vigna Murata 605, 00143 Rome, Italy
Telephone(s) +39 06 51860521
Fax(es) +39 06 51860541
E-mail salvatore.stramondo@ingv.it
Nationality Italian
Date of birth 16.12.1968
Gender Male

Occupational field **SAR Interferometry/Remote Sensing / Optical satellite image processing / Active Tectonics/ Deformation measurement**

Work experience

Dates June 2014 –
Occupation or position held **Head Satellite Earth Observation Data unit**
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**
Via di Vigna Murata 605, 00143 Rome, Italy
Type of business or sector 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
Name and address of employer CNR-IRECE
Via Diocleziano, Napoli, Italy
Type of business or sector Governmental Research Institute

Education and training

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

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](#)

Technical skills and competences SAR and Optical satellite data processing and analysis to measure surface movements and for change detection aims. Integration of InSAR data and GPS measurements. InSAR data inversion to investigate the geometric parameters of seismic sources. Neural Networks for classification aims. SAR and Optical data fusion.

Computer skills and competences ENVI-IDL programming, GAMMA Interferometric Software

Projects

European

Scientific and Technical Coordinator **APhoRISM - Advanced PRocedures for volcanic and Seismic Monitoring**. It is financed by the European Commission under the 7th Framework Programme, SPACE, Remote Sensing Methods.

MIA-VITA, Mitigate and Assess risk from Volcanic Impact on Terrain and human Activities.

The project aims at developing tools and integrated cost effective methods to mitigate risks from various hazards on active volcanoes (prevention, crisis management and recovering). MIA-VITA is financed by the European Commission under the 7th Framework Programme for Research and Technological Development, Area "Environment", Activity 6.1 "Climate Change, Pollution and Risks. 2008-2012

Tectonic Theme Leader **TERRAFIRMA ESA Extension phase**. It is a Pan-European ground motion information service in support of policies aimed at protecting citizen against natural and anthropogenic ground motion hazards". GMES Service Element, funded by European Space Agency (ESA), 2009–2012.

SAFER, Service and Application For Emergency Response. Objective of the project has been to reinforce the European capacity to respond to emergency situations such as Meteorological-driven hazards, Geophysical hazards, man-made disasters and humanitarian disasters. It was funded in the 7th Framework Programme under the Theme Space to implement the Emergency Response Core Service for GMES. 2007-2012.

SIGRIS, Integrated System for Seismic Risk Management. *The project aimed at using satellite data to develop tools able to provide a contribution to the analysis of the seismic risk and its mitigation. It is funded by the Italian Space agency. 2007-2011.*

PREVIEW, PREvention Information and Early Warning. The project addressed the development of Value Added information services to support the decision making process of risk management. It has been based on best results from thematic research projects, information services to be ingested in the systems of operators and users. PREVIEW was funded under the 6th Frame Program (FP6) and has represented the first Project which addressed the GMES requirements. 2005-2008.

Chair of the WG8 Satellite Information Data, **EPOS** European Plate Observing System, Member of the Science Plan Team.

ASI-SRV Volcanic Surveillance. The project aimed at using satellite data to develop tools able to provide a contribution to the analysis of the volcanic risk and its mitigation. It is funded by the Italian Space agency. 2007-2011.

National

Scientific Coordinator **PRIN 2010**. The project is aimed at studying the coastal area of Rome using satellite data to measure surface deformation and to classify soil use.

Scientific coordinator **MIUR Premiale 2011** Studio multidisciplinare della fase preparatoria di un terremoto

Publications

S. Salvi, M.F. Buongiorno, F. Doumaz, **S. Stramondo** (1997) – “Contributo delle tecniche aerospaziali di osservazione della terra alla definizione delle deformazioni crostali cumulate e cosismiche”, Studi preliminari sulla sequenza sismica dell'Appennino Umbro-Marchigiano del Settembre-Ottobre 1997, p. 33-37, Pubblicazione dell'Istituto Nazionale di Geofisica n. 593

Tesauro M., **Stramondo S.**, Sansosti E., Lanari R., Fornaro G., Stornelli S., Salvi S., Franceschetti G. (1998) – ERS-1/ERS-2 per i terremoti del 1997, *Sistema Terra, anno VII, n.1-3, pp. 150-155*

Stramondo S., Further Achievements of the ERS Mission, *ESA Publications, 1998, pp. 74-78*

Stramondo S., Tesauro M., Briole P. Sansosti E., Salvi S., Lanari R., Anzidei M., Baldi P., Fornaro G., Avallone A., Buongiorno M.F., Franceschetti G., Boschi E. (1999) – “The September 26, 1997 Colfiorito, Italy, earthquakes: modeled coseismic surface displacement from SAR Interferometry and GPS”, *Geophys. Res. Lett.*, Vol. 26, n.7, pp.883-886

Salvi S, **Stramondo S.**, Cocco M., Tesauro M., Hunstad I., Anzidei M., Briole P., Baldi P., Sansosti E., Lanari R., Doumaz F., Pesci A. and A. Galvani (1999) – “Modeling Coseismic Displacements resulting from SAR Interferometry and GPS measurements during the 1997 Umbria-Marche seismic sequence”, *Journal of Seismology*, Vol.4, n.4, pp. 479-499, October 2000

Lundgren P. and **S. Stramondo**, Slip Distribution of the 1997 Umbria-Marche earthquake sequence through joint inversion of GPS and DInSAR data, *Journal of Geophysical Research*, VOL. 107, NO. B11, 2316, doi:10.1029/2000JB000103, November 2002

Stramondo S., F. R. Cinti, M. Dragoni, S. Salvi, S. Santini, The August 17, 1999 Izmit, Turkey, earthquake: new insights on slip distribution from dislocation modeling of DInSAR and surface offset, *Annals of Geophysics*, vol. 45, n.3/4, pp. 527-536, June/August 2002

Salvatore Stramondo, Andrea Arturi, Fabio Del Frate e Federica Riguzzi, Digital Elevation Model generation of the Alban Hills area from SAR Interferometry technique, *Rivista Italiana di Telerilevamento*, special issue, 2003.

Burrato, P., Casale P., Cultrera G., Landi P., Nostro C., Scarlato P., Scotto C., **Stramondo S.**, Tertulliani A., Winkler A and Bonifaci, U., Geophysics for kids: the experience of the Istituto Nazionale di Geofisica e Vulcanologia (Italy)" by Seismological RESEARCH Letters Special Issue in Education and Outreach, September/October 2003, Vol. 74, n.5, pp. 529-535.

S. Salvi, S. Atzori, C. Tolomei, J. Allievi, A. Ferretti, C. Prati, F. Rocca, **S. Stramondo**, N. Feuillet, Inflation rate of the Colli Albani volcanic complex retrieved by the Permanent Scatterers SAR interferometry technique, *Geoph. Res. Letters*, 2004.

Stramondo S., Parametrizzazione delle proprietà dielettriche di mezzi non omogenei e dispersivi. Calcolo dei parametri di assorbimento e scattering nel caso di impulso elettromagnetico incidente, Rapporto tecnico n.15 Istituto Nazionale di Geofisica e Vulcanologia, 2004

S. SANTINI, P. BALDI, M. DRAGONI, A. PIOMBO, S. SALVI, G. SPADA, and **S. STRAMONDO**, Monte Carlo Inversion of DInSAR Data for Dislocation Modeling: Application to the 1997 Umbria-Marche Seismic Sequence (Central Italy), *Pure and Applied Geophysics*, 161, 817-838, 2004

Hernandez. B., M. Cocco, F. Cotton, **S. Stramondo**, O. Scotti, F. Courboulex and M. Campillo , Rupture history of the 1997 Umbria-Marche (central Italy) main shocks from the Inversion of GPS, DInSAR and near field strong motion data, *Annals of Geophysics*, vol.47, n.4, August 2004, pp. 1355-1376

Saroli M., **S. Stramondo**, M. Moro and F. Doumaz. Movement detection of Deep Seated Gravitational Slope Deformations by means of InSAR data and Photogeological interpretation: Northern Sicily case study, *Terra Nova*, 2004.

S. STRAMONDO, M. MORO, F. DOUMAZ AND F.R. CINTI, The December 26th, 2003, Bam (Iran) earthquake: surface displacement from Envisat ASAR Interferometry, *International Journal of Remote Sensing*, vol. 26, n.5, 10 March 2005, 1027-1034

S. Stramondo, M. Moro, C. Tolomei, F.R. Cinti, F. Doumaz, InSAR surface displacement field and fault modelling for the 2003 Bam earthquake (southeastern Iran), *Journal of Geodynamics*, vol. 40, Nos. 2-3, pp. 347-353, September-October, 2005

S. Stramondo, C. Bignami, M.Chini, N. Pierdicca, A.Tertulliani, Satellite radar and optical remote sensing for earthquake damage detection: results from different case studies, *International Journal of Remote Sensing*, Vol. 27, No. 20, 20 October 2006, 4433-4447

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- Moro M., Saroli M., Salvi S., **Stramondo S.** and Doumaz F., The relationship between seismic deformation and gravitational movements: an example from the area of the 1997 Umbria-Marche (Central Italy) earthquakes, *Geomorphology*, 2007.
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- S. Stramondo**, F. Bozzano, F. Marra, U. Wegmuller, F.R. Cinti, M. Moro, M. Saroli, Subsidence induced by urbanisation in the city of Rome detected by advanced InSAR technique and geotechnical investigations, *Remote Sensing of Environment* 112 (2008) 3160–3172.
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- Chini, M; Cinti, FR; **Stramondo, S**, Co-seismic surface effects from very high resolution panchromatic images: the case of the 2005 Kashmir (Pakistan) earthquake, *NATURAL HAZARDS AND EARTH SYSTEM SCIENCES Vol: 11 Issue: 3 Pages: 931-943 DOI: 10.5194/nhess-11-931-2011 2011*
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Picchiani, M.; Chini, M.; Corradini, S.; Merucci, L.; Sellitto, P.; Del Frate, F.; **Stramondo, S.**, Volcanic ash detection and retrievals using MODIS data by means of neural networks, ATMOSPHERIC MEASUREMENT TECHNIQUES Volume: 4 Issue: 12 Pages: 2619-2631 DOI: 10.5194/amt-4-2619-2011 Published: 2011

Bignami C., Pierfrancesco Burrato, Valentina Cannelli, Marco Chini, Emanuela Falcucci, Alessandro Ferretti, Stefano Gori, Christodoulos Kyriakopoulos, Daniele Melini, Marco Moro, Fabrizio Novali, Michele Saroli, **Stramondo S**, Gianluca Valensise, Paola Vannoli (2012). Coseismic deformation pattern of the Emilia 2012 seismic sequence imaged by Radarsat-1 interferometry . ANNALS OF GEOPHYSICS, ISSN: 2037-416X, doi: 10.4401/ag-6157, Volume: 55 Issue: 4 Pages: 789-795 DOI: 10.4401/ag-6157, 2012

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Picchiani, M , Del Frate, F, Schiavon, G, **Stramondo, S** , Features extraction from SAR interferograms for tectonic applications, EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING Article Number: 155 DOI: 10.1186/1687-6180-2012-155, 2012.

R. CARLUCCIO,A. GIUNTINI,V. MATERNI,S. CHIAPPINI,C. BIGNAMI,F. D'AJELLO CARACCILO,A. PIGNATELLI, **S. STRAMONDO**,R. CONSOLE, and M. CHIAPPINI, A Multidisciplinary Study of the DPRK Nuclear Tests, Pure Appl. Geophys., DOI 10.1007/s00024-012-0628-8

Michael Fomelis, Elisa Trasatti, Elena Papageorgiou, **Salvatore Stramondo**, and Issaak Parcharidis, *Monitoring Santorini Volcano (Greece) breathing from space*, Geophys. Journ. Intern., in press.

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Christodoulos Kyriakopoulos,Marco Chini, Christian Bignami, **Salvatore Stramondo**, Athanassios Ganas, Maria Kolligri and Alexandra Moshou, Monthly migration of a tectonic seismic swarm detected by DInSAR: southwest Peloponnese, Greece, Geophysical Journal International, June 2013, doi: 10.1093/gji/ggt196.

C. Kyriakopoulos, T. Masterlark, **S. Stramondo**, M. Chini, C. Bignami, Coseismic slip distribution for the M9 2011 Tohoku-Oki earthquake derived from 3D FEM modeling, Journal of Geophysical Research, *Journal of Geophysical Research*, 07/2013; DOI: 10.1002/jgrb.50265

Stramondo S., Paola Vannoli, Valentina Cannelli, Marco Polcari, Daniele Melini, Sergey Samsonov, Marco Moro, Christian Bignami, and Michele Saroli, X- and C-Band SAR Surface Displacement for the 2013 Lunigiana Earthquake (Northern Italy): A Breached Relay Ramp?, Journal of Selected Topics of Applied Remote Sensing, Special Issue on COSMO-Skymed First and Second Generation Exploitation Volume: 7 Issue: 7 Pages: 2746-2753 Published: JUL 2014

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and Second Generation Exploitation, Journal of Selected Topics of Applied Remote Sensing, Volume: 7 Issue: 7 Pages: 2707-2710 Published: JUL 2014

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Awards

IEEE Geoscience and Remote Sensing Society 2015 J-STARS Prize Paper Award

Book Chapter	<p>M ANZIDEI, F RIGUZZI, STRAMONDO S (2010). Current geodetic deformation of the Colli Albani volcano: a review. In: Funicello, R. & Giordano, G.. The Colli Albani Volcano. p. 299-310</p> <p>Editor Remote Sensing Section in Encyclopedia of Earthquake Engineering, Springer-Verlag Berlin Heidelberg, Print ISBN 978-3-642-35343-7, Editors: Beer, M., Kougioumtzoglou, I.A., Patelli, E., Au, I.S.-K. (Eds.), 2016, 3435 pages in three volumes.</p> <p>Stramondo S., Remote Sensing in Seismology: an overview, in Encyclopedia of Earthquake Engineering, Springer-Verlag Berlin Heidelberg, Print ISBN 978-3-642-35343-7, Editors: Beer, M., Kougioumtzoglou, I.A., Patelli, E., Au, I.S.-K. (Eds.).</p>
PhD supervision	<p>Radar And Optical Remote Sensing Techniques For Earthquake Damage Mapping, Student: Marco Chini, University of Bologna.</p> <p>SAR Interferometry applied to the investigation of earthquake source, Student: Marco Polcari, University of Bologna</p> <p>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</p>
Scientific visits	<p>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)</p> <p>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.</p> <p>Invited lecturer in occasione dell'Indo-Italian Workshop on Recent Developments in SAR Interferometry Technology and Application (Bombay, India, March 28 – April 6, 2001).</p> <p>Key lecture at GeoMonitoring 2012 Workshop, (March 14-15, University of Hannover): Satellite Earth Observation: state of art and perspectives for the GeoHazard scientific community</p>
Additional information	<p>Chairman and Co-Chairman at several international conferences (IGARSS-International Geoscience and Remote Sensing Symposium, EGU-European Geophysical Union).</p> <p>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.</p> <p>Senior Member of IEEE Geosciences and Remote Sensing Society, International Society for Photogrammetry and Remote Sensing – Commission VII - WG 6 - Remote Sensing Data Fusion and Associazione Italiana di Telerilevamento.</p> <p>Since 2011 Member of Board of Directors of the Italian Association of Remote Sensing - Associazione Italiana di Telerilevamento</p> <p>Member of the GEO Supersite, Scientific Advisory Committee (SAC), Earthquake subcommittee.</p> <p>Scientific Organizing Committee, International Forum on Satellite Earth Observation for Geohazard Risk Management, Santorini 21-23 May 2012: Lead Author of the Seismic Hazards chapter ESA-GEO Publication.</p>

**Editorial Experience
(Confidential)**

Since 2009 Editor of *Remote Sensing* journal

Since 2009 Associate Editor of *IEEE GRS Letters*.

Since 2012 Associate Editor for International Journal of Applied Earth Observation and Geoinformation.

Since 2005 member of the Comitato Editoriale Nazionale (National Editorial Committee) at Istituto Nazionale di Geofisica e Vulcanologia.

2014 Editor Encyclopedia of Earthquake Engineering, Remote Sensing chapter, Springer

2014 Editor Special Issue on COSMO-SkyMed First and Second Generation Exploitation, *IEEE Journal of Selected Topics of Applied Remote Sensing*

Rome, December 7th, 2016

Salvatore Stramondo

