



**Europass
Curriculum Vitae**



Personal information

First name(s) / Surname(s) **Fawzi Doumaz**

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Nationality Algerian / Italian

Date of birth November 4th, 1964

Gender Male

Desired employment / Occupational field

GEOMATICS/ARCHEOMATICS Technologies, GIS and Data management, ITC and software designer

Dates

Since 1992

Occupation or position held
Main activities and responsibilities

- Senior researcher
- Research & Development in Geosciences,
 - INGV National GIS activities Co-coordinator
 - Software and web applications development for real-time data management
 - RDBMS and Geodatabase management (OGC protocols and standards)
 - Metadata management
 - Software design under GIS environment (commercial & open source)
 - WEB-based early warning software development
 - Software development and infrastructures maintenance during Antarctic Italian expeditions
 - Collaboration in several European and National projects
 - WEBGIS and Geodatabase design and implementation for Water resources for Algerian Ministry.
 - Member of 3 Antarctic Italian Scientific Expeditions for Geophysical observatories
 - **"Situation Awareness 2013"**, Awarded by ESRI, the world leader of GIS software company
 - Chief of Head office of INGV Cosenza
 - Research associate CNR-ISMA (**Istituto di Studi sul Mediterraneo Antico**)
 - Task leader in several National and European projects
 - ENAC authorized UAV pilot and operator
 - Member of the Scientific council of CNRA (Centre National de Recherches en Archéologie) Algeria
 - Member of the Scientific council of INGV
 - Member of the technical committee of the Coliseum Archaeological Park

Name and address of employer

Istituto Nazionale di Geofisica e Vulcanologia, Via di Vigna Murata 605, 00143, Rome, Italy
ONT - Osservatorio Nazionale Terremoti

Type of business or sector

Earthquakes, Volcanoes, Geo-risk assessment, , ITC, GIS, deep sea data management, 3D environments for science, Geophysics for Archaeology, Drone Pilot. Payload design and implementation for UAV and Drones, photogrammetry for topography and archaeology.

Occupation or position held
Main activities and responsibilities

Researcher

- Remote sensing for seismogenic sources identification
- Digital elevation models generation using GIS software
- Geomorphology of modern and quaternary landscapes.
- Ground Calibration/Validation for remote sensing
- Software development for earth sciences.
- Photogrammetry for Geosciences and Archaeology

Name and address of employer

From 1992 -1996

Centre de Recherche en Astronomie, Astrophysique et Géophysique, Route de l'observatoire, Bouzareah, Algiers, Algeria

Type of business or sector

Earthquakes, Seismotectonic, Paléoseismology, ITC.

Education and training

Dates

Juin 1992

Title of qualification awarded

Engineering Geology degree

Name and type of organisation providing education and training

University of science and technology of Algiers (Houari Boumedienne)

Personal skills and competences

Mother tongue(s)

Arabic, French, Italian, English

Other language(s)

Self-assessment
European level ()*

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
English	C1	C1	C1	C1	

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

Social skills and competences

- Team work: Ample social capacities and facilities to initiate, communicate, interact and maintain positive social relationships with others in work and life.
- Mediating skills
- Intercultural skills
- Solution-Maker

Organisational skills and competences

- Good vision of the whole work to be done and good capacity to dispatch the work on the team members following their skills and capacities.
- Scientific campaigns organisation and coordination
- ITC and Geomatics Solution-Maker

Technical skills and competences	Solution maker for IT architectures, software and hardware solutions for data processing chains, High quality digital data acquisition technics
Computer skills and competences	<p>Windows, Unix, Mac</p> <ul style="list-style-type: none"> • Servers system management • Internet protocols, connectivity and security • Software development standalone and web-based • Development with .net framework (VB.Net, Asp.net, C#) • Development with IDL, Python, PHP • Development with : ESRI AML, ESRI Avenue • Open-source GIS environment for desktop and server approaches, • All server and Desktop ESRI products (ArcGis) • ArcSDE installation and tuning • ArcGIS server installation and tuning (services and application implementation) • Developpement for ArcGIS server • WEB design • OGC Data exchange protocols • Computer graphics
Artistic skills and competences	Guitar player and music arranger and producer, drawing, photography.
Other skills and competences	Basic skill in Electronics, good knowledge in Hardware assembling and controllers coding.
Additional information	<ul style="list-style-type: none"> ❖ Outreach products like interactive WEB sites & movies maker for scientific divulgation ❖ "Situation Awareness 2013", Awarded by ESRI, the world leader of GIS software company

Annexes

Publications, proceedings, posters

Up to date link :

Google scholar up to date:

https://scholar.google.it/citations?hl=it&user=L2fzff0AAAAJ&view_op=list_works&sortby=pubdate

ResearchGate :

https://www.researchgate.net/profile/Fawzi_Doumaz/contributions

1. **C Bottari, M Albano, P Capizzi, A D'Alessandro, F Doumaz, R Martorana, M Moro, M Saroli** Recognition of Earthquake-Induced Damage in the Abakainon Necropolis (NE Sicily): Results From Geomorphological, Geophysical and Numerical Analyses (2017)
2. **Arrigo Caserta, Fawzi Doumaz, Antonio Costanzo, Anna Gervasi, William Thorossian, Sergio Falcone, Carmelo La Piana, Mario Minasi, Maria Fabrizia Buongiorno** Assessing soil-structure interaction during the 2016 central Italy seismic sequence (Italy): preliminary results
3. **Youcef Chennaoui Baya Bennoui-Ladraa , Fawzi Doumaz** Contribution to the Technical Interpretation of the Roman Sacred Architecture by the New Survey Methods. Case Study: The Nameless Temple of Tipasa (Algeria), Book, Handbook of Research on Emerging Technologies for Architectural and Archaeological Heritage, Editor: IGI Global (2016)
4. **Antonio Costanzo, Antonio Montuori, Juan Pablo Silva, Malvina Silvestri, Massimo Musacchio, Fawzi Doumaz, Salvatore Stramondo, Maria Fabrizia Buongiorno** The Combined Use of Airborne Remote Sensing Techniques within a GIS Environment for the Seismic Vulnerability Assessment of Urban Areas: An Operational Application (2016)
5. **C. Spinetti1, S. Barsotti, A. Neri, M. F. Buongiorno, F. Doumaz1, L. Nannipieri** Investigation of the complex dynamics and structure of the 2010 Eyjafjallajökull volcanic ash cloud using multispectral images and numerical simulations, 2013, JGR, Journal of Geophysical Research, Atmospheres, DOI: 10.1002/jgrd.50328
6. **M; Amicucci, L; Cinti, FR; Doumaz, F; Montone, P; Pierdominici, S; Saroli, M; Stramondo, S; Di Fiore 2007** Surface evidence of active tectonics along the Pergola-Melandro fault: A critical issue for the seismogenic potential of the southern Apennines, Italy, 2007, Moro, JOURNAL OF GEODYNAMICS
7. **Stramondo, S; Saroli, M; Tolomei, C; Moro, M; Doumaz, F; Pesci, A; Loddo, F; Baldi, P; Boschi, E (2007)** Surface movements in Bologna (Po Plain-Italy) detected by multitemporal DInSAR, 2007, REMOTE SENSING OF ENVIRONMENT
8. **Moro, M; Saroli, M; Salvi, S; Stramondo, S; Doumaz, F, 2007** The relationship between seismic deformation and deep-seated gravitational movements during the 1997 Umbria-Marche (Central Italy) earthquakes , GEOMORPHOLOGY
9. **M. Meghraoui, F. Doumaz, (1992)**, Paleoseismicity of active thrust faults: the El Asnam (Algeria) case-study, Abstract volume of the Neotectonic recent advanced symposium, p. 37, London 16 - 17 June 1992
10. **Y. Rouchiche, M. Meghraoui, F. Doumaz, (1993)**, Piggy-Back structure, and Shortening Rate of Active Folds in the Cheliff Basin (North Algeria), Abstract, EUG VII, du 4 au 8 Avril 1993, Strasbourg, France, p. 175, résumé N° 65.
11. **C.A. Brunori, S. Salvi, F. Doumaz, M. Calcara, M. Guerra, L. Pizzino, F. Quattrocchi, S. Lombardi, F. Zampetti (1996)** A GIS Study of Geochemical Indicators of Active Faults in the Gargano Area, Southern Italy Presented to the Workshop: Gis and major hazards, Welferdange, Luxembourg. In stampa

sui Cahiers du Centre Europeen de Geodynamique et de Seismologie

12. **M. Meghraoui, F. Doumaz, (1996)** Earthquake induced flooding and paleoseismicity of the El Asnam, Algeria, fault-related fold, Journal of Geophysical Research. Vol 101 N°B8.
13. **C.A. Brunori, S. Salvi, F. Doumaz, M. Calcara, M. Guerra, L. Pizzino, F. Quattrocchi, S. Lombardi, F. Zampetti (1997)** The Geochemical Seismic Zonation : A GIS Multi Disciplinar Application for Seismic Surveillance. European Geophysical Society, XXII General Assembly, Vienna, Austria, 21-25 April 1997, Annales Geophysicae, Part I, Supplement I to Vol. 15, Page C226.
14. **C.A. Brunori, F. Doumaz, S. Salvi, F. Cinti, F. Quattrocchi (1997)** Un GIS per lo studio di un'area sismicamente attiva: analisi multiparametrica per l'individuazione e monitoraggio di strutture sismogenetiche. Atti della 1a Conferenza Nazionale delle Ass. Scientifiche per le Informazioni Territoriali e Ambientali: "Le immagini e le Informazioni Territoriali" (Parma, 30 Settembre – 03 Ottobre, 1997)
15. **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
16. **S. Stramondo, F. Doumaz, L. Colini, M. Anzidei (1998)** – "The September 1997, Central Italy earthquake sequence: modeling coseismic surface displacement using SAR Interferometry and GPS", in stampa sugli Atti del XVI convegno del GNGTS, Roma.
17. **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 (2000)**, Modeling Coseismic Displacements resulting from SAR Interferometry and GPS measurements during the 1997 Umbria-Marche seismic sequence, Journal of Seismology, 4, 479-499,.
18. **S. Salvi, F. Quattrocchi, C.A. Brunori, A. Billi, F. Buongiorno, F. Doumaz, R. Funicello, M. Guerra, S. Lombardi, G. Mele, L. Pizzino, F. Salvini 1998**, " A multidisciplinary approach to earthquake research: implementation of a Geochemical Geographic Information System for the Gargano site, southern Italy " Sottomesso nel a Natural Hazards .
19. **Doumaz F., Salvi S., Cinti F.R., Pettinelli E., Basili R., Stramondo S. (1999)** - "Multidisciplinary Investigations on the Celano-L'Aquila Fault System in the Abruzzi Region (Central Apennines)", Comunicazione orale al convegno annuale dell'EGS, The Hague, Olanda, 19-23 Aprile 1999.
20. **V. Lombardo, M.F. Buongiorno, L. Colini, D. Pieri, F. Doumaz, L. Merucci, 2001** Temperature Distribution Analysis of July 2001 Mount Etna Eruption: a Multi-Sensor Image Data Comparison, poster e abstract al AGU-American Geophysical Union, S. Francisco fall meeting, 2001.
21. **Buongiorno M.F., Realmuto V.J., Doumaz F. (2002)**, Recovery of spectral emissivity from Thermal Infrared Multispectral Scanner (TIMS). Imagery acquired over a mountainous terrain: a case study from Mount Etna Sicily. January 2002, Remote Sensing of Environment. Vol 79, pp.123-133, 2002.
22. **Speziale S., Borgia A., Doumaz F., Parello F., D'Alessandro W., Neri M. -** Tracing Magmatic Chemical Species through Mt. Etna to Constrain the Evolution of
23. **Volcanic Activity. AGU 1997** Fall Meeting, San Francisco, 1997.
24. **Salvi S., Mazzarini F., Doumaz F., Lombardo V., Tolomei C. 2001**, Spectral Reflectance measurements of geological materials in the Northern Victoria Land, Antarctica, AIT Informa, Rivista dell'Associazione Italiana di Telerilevamento, n.23, settembre 2001
25. **Salvi S., Mazzarini F., Doumaz F., Lombardo V., Tolomei C., LILIAN: 2002** The Spectral Library of Antarctic Lithologies, Banca dati di spettri di riflettanza on-line, 2002. <http://www.ingv.it/labtel2/LibrerieSpettral/Content.html>
26. **Cinti, F. R., L. Colini, G. D'Addezio, F. Doumaz, E. Pettinelli, S. Salvi**

- (2002), New evidence for active faulting along the Celano-L'Aquila Fault System, Abruzzi, (Central Italy), Submitted to Geophysical Journal International, 2002.
27. **Colini, L., F. Doumaz, F. Galadini, B. Giaccio, P. Messina, S. Salvi, A. Sposato, 2002** Quaternary tectonic evolution of the area of the 1997 Colfiorito earthquake, Italy: comparison surface and subsurface observations, Oral presentation EGS Annual Meeting, Nice, 2002.
 28. **Colini, L., G. E. Hilley, J R. Arrowsmith, S. Salvi, F. Doumaz (2002)**, Digital Elevation Model Analysis Highlighting Tectonic and lithologic Control on landscape Morphology in Bedrock Environments: an example from the Central Apennines, Italy, Oral presentation EGS Annual Meeting, Nice, 2002.
 29. **Stramondo S., Salvi S., Cocco M., Tesauro M., Anzidei M., Doumaz F., Sansosti E., Lanari R. (1997)**, Applicazioni di interferometria SAR differenziale: il terremoto di Colfiorito del 26 Settembre 1997. Ricostruzione del campo di deformazione co-sismico, realizzazione di modelli di faglia a partire da dati SAR e GPS, IX Riunione Annuale CeTeM Workshop AIT sul Telerilevamento a Microonde, Roma 7-8 Ottobre 1999.
 30. **Stramondo S., Salvi S., Anzidei M., Baldi P., Cocco M., A. Galvani, Pesci A., Briole P., Tesauro M., Lanari R., Sansosti E., Hunstad I., Doumaz F (1999)**, Deformazioni cosismiche e modelli di faglia dei terremoti appenninici della sequenza umbro-marchigiana del Settembre-Ottobre 1997 mediante dati SAR e GPS, Poster, Atti XVIII Convegno Nazionale GNGTS 99, Roma, 9-11 Novembre 1999.
 31. **V.Lombardo, M.F., Buongiorno, L. Colini, D. Pieri, F. Doumaz, L. Merucci 1997**, Temperature Distribution Analysis of July 2001 Mount Etna Eruption: a Multi-Sensor Image Data Comparison, poster e abstract al AGU-American Geophysical Union, S. Francisco fall meeting, 2001
 32. **Salvi S., Cinti F.R., Doumaz F., Pettinelli E., Stramondo S., Colini L 1999**, Faulting on antislope scarps in the M.te Ocre range (Abruzzi, Central Apennines): tectonic versus gravitational origin, International Workshop on: "Large-Scale vertical movements and related gravitational processes", Camerino, June 21-26, 1999.
 33. **Buongiorno M.F., Merucci L., F. Doumaz, Salvi S., Bogliolo M.P, Pugnaghi S., Teggi S., Coradini S., Lumbroso L., Sterni A. Caltabiano T. and Carrere 1999**, MVRRS Campaign: MIVIS mission on Sicilian volcanoes and ground measurements, Quaderni di Geofisica, Pubblicazione N. 7, 1999, editor: Istituto Nazionale di Geofisica, 1999.
 34. **Stramondo S., Doumaz F., Colini L., Anzidei M .**, The September 26, 1997 Colfiorito ITALY, earthquakes: modeled coseismic surface displacement from SAR Interferometry and GPS, Atti XVII Convegno Nazionale