



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)

Francesco Ponziani

Address

Telephone(s)

Fax(es)

E-mail(s)

Nationality

Date of birth

Gender

Employment

geologist, geophysicist

Occupational field

Hydrogeological and seismic risk assessment: Landslide Early Warning Systems development; seismic – accelerometric networks; active and passive seismic prospecting: refraction seismic tomography, down – hole, cross-hole, HVSR surveys, vibrometric monitoring, landslide monitoring network.

Actual position

Officier at the Regione Umbria - Civil Protection Agency - Functional Center: Natural risks monitoring and evaluation

Main responsibilities:

- **Assessing the alert state with regard to the hydrogeological risk over the regional territory (Umbria Region, Italy) at daily base;**
- **Project and development of Early Warning Systems for landslide risk at regional and local scale, and web based dynamic landslide scenario tool;**
- **Technical responsibility for the National Department civil Protection Agency Accelerometric Network development and dynamic monitoring of relevant buildings in Umbria.**

Work experience

Dates

JUNE 96 - JUNE 03

Occupation or position held

Independent consultant (1); free lance geophysicist (2);

Main activities and responsibilities

- (1) mainly involved in planning and execution of microzonation projects supporting the reconstruction after the 1997-2000 seismic crises in Umbria (Central Italy); planning and running of seismological and accelerometric networks; development of seismic databases;
- (2) surface and bore-hole seismic prospecting for underground exploration; vibration monitoring for road traffic and quarry blast activity; project and realization of instrumentation for seismic prospecting; acquisition of seismic and geochemical data in volcanic areas;

Name and address of employer

Local Governing Body, Regione Umbria, P.zza Partigiani 1, 06100 Perugia (1); private companies, National Institute of Geophysics and Vulcanology, Via di Vigna Murata, Roma (2)

Type of business or sector

Applied geology, geophysics

Dates	01/06/2003 - 01/06/2008
Occupation or position held	Geological Office, Directive Functionary
Main activities and responsibilities	- Technical responsibility for microzonation projects; - development of local and national seismic codes; - development and managing of the local seismic network; - geophysical data acquisition and elaboration
Name and address of employer	Local Governing Body, Regione Umbria, P.zza Partigiani 1, 06100 Perugia (1); private companies, National Institute of Geophysics and Vulcanology, Via di Vigna Murata, Roma (2) 96, Corso Vannucci, 06121 Perugia (Italy)
Type of business or sector	Regional Local administration
Dates	01/06/2008 →
Occupation or position held	Civil Protection Office Directive Functionary
Main activities and responsibilities	Assessing the hydrogeological risk at regional scale; design and implementation of Early Warning Systems for the hydrogeological risk; technical responsibility for the National Department civil Protection Agency Accelerometric Network development and dynamic monitoring of relevant buildings in Umbria
Name and address of employer	Regione Umbria 96, Corso Vannucci, 06121 Perugia (Italy)
Type of business or sector	Local Public Administration

Education and training

Dates	1994 - /1995
Title of qualification awarded	Post Doctoral Grant
Principal subjects / occupational skills covered	Seismic data processing; Definition of geodynamic models by organization of crustal seismic data integrated with geologic and petrologic methodologies and data
Name and type of organisation providing education and training	Institute for the Reduction of the Seismic Risk - National Council of Research, (Ministry of Scientific and Technological Research) 15, Via Bassini, 02 Milano (Italy)
Level in national or international classification	ISCED 6
Dates	1990 – 1994
Title of qualification awarded	P.H.D.
Principal subjects / occupational skills covered	Crustal seismic <i>Thesis title: "Digitalization and reinterpretation of crustal seismic data: hypothesis for a geodynamic model of Northern Tyrrhenian - Central Italy" - digital seismic data processing, interpretation and use of computer applications for the development of geological-geodynamic models; planning of refraction - wide angle reflection surveys for crustal studies; study of geothermal areas.</i>
Name and type of organisation providing education and training	Institute for the Reduction of the Seismic Risk - National Council of Research, (Ministry of Scientific and Technological Research) 15, Via Bassini, 02 Milano (Italy)
Level in national or international classification	ISCED 6 (national level - Dottorato di Ricerca)

Dates 1989

Title of qualification awarded Degree in Geology

Principal subjects / occupational skills covered geological, geophysical and geochemical methods aimed to the identification and the study of geothermal areas

Name and type of organisation providing education and training Department Of Earth Sciences (University)
1, Piazza dell'Università, 06100 Perugia (Italy)

Level in national or international classification ISCED 5A

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment
European level ()*

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1-B2	Independent user	C1-B2	Independent user	C1-B2	Independent user	B2	Independent user	B2	Independent user
A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User

(*) [Common European Framework of Reference \(CEFR\) level](#)

Social skills and competences Team Spirit; experience in and good ability to adapt to multicultural environments

Organisational skills and competences experience in project planning or team management; technical and administrative responsibility in applied research projects; PHD and Degree thesis correlator.

Technical skills and competences good knowledge of acquisition data systems, knowledge of electronics, electrotechnology, mechanics.

Computer skills and competences many years of experience in Matlab™ programming language, seismological and active seismic prospection programs; Microsoft Office™ tools (Word™, Excel™ and PowerPoint™), Open Office, GIS

Other skills and competences machinery, DIY; work experience in uncomfortable environments: mountain, caves, geothermal areas, volcanic areas.

Driving licence(s) A, B

External references DPCN, Centro Funzionale Centrale – Ufficio Servizio Sismico; CNR IDPA (ex IRRS); Dip. Scienze della Terra Perugia.

Annexes Latest training

Advanced Course of Meteorology for Meteorologists(WMO-M), Foligno, 2019.

Introduction to Meteorology for Meteorology Technicians(WMO-MT), Foligno, 2019.

European Commission: "Community Mechanism Introduction Course" Union Civil Protection Mechanism Training Programme, Easingwold, UK. 2015.

"International Remote Sensing School for Hydrological Applications 2014: H-SAF PRODUCTS APPLICATION FOR HYDROLOGICAL RISK MANAGEMENT" DPC, Rome, Italy. 2014.

"Summer School on Early Warning Systems and Landslides Modeling". Università della Calabria – Ministero della ricerca. Praia a Mare, Italy. 2012.

"Consorzio LaMMA: Applied Meteorology Course". Foligno, Italy. 2011.

Relevant Publication (technical reports not listed)

- Brocca L., Ponziani F., Moramarco T., Melone F., Berni N. and Wagner W., "Improving Landslide Forecasting Using ASCAT-Derived Soil Moisture Data: A Case Study of the Torgiovanetto Landslide in Central Italy", Remote Sensing, DOI:10.3390/rs4051232;
- F. Ponziani, M. Stelluti, R. Zauri, N. Berni, L. Brocca, T. Moramarco, D. Salciarini, and C. Tamagnini, "A near real time scenario at regional scale for the hydrogeological risk", EGU2012, European Geosciences Union – General assembly 2012 – Vienna (Austria), Aprile 2012;
- Ponziani F., Berni N., Stelluti M., Zauri R., Brocca L., Moramarco T., Salciarini D. and Tamagnini C., "Landwarm: an operative early warning system for landslides forecasting based on rainfall thresholds and soil moisture", The 2° World Landslide Forum, Rome, October 2011;
- Ponziani F., Pandolfo C., Stelluti M., Berni N., Brocca L., Moramarco T., "Assessment of rainfall thresholds and soil moisture modeling for operational hydrogeological risk prevention in the Umbria region (central Italy)", Landslides, DOI 10.1007/s10346-011-0287-3;
- Ponziani F., Berni N., Pandolfo C., Stelluti M. and Brocca L., "An integrated approach for the real-time monitoring of a high risk landslide by a regional civil protection office", EGU Leonardo Topical Conference Series on the hydrological cycle, Luxembourg, November 2010;
- Marcucci S., Milana G., Ponziani F. – "Acquisizione ed elaborazione di dati sismologici per la microzonazione sismica di Pietralunga" Servizio Sismico Nazionale, Regione dell'Umbria, final report, Gennaio 2002.
- De Franco, R., Caielli, G., Adelmo Corsi, Ponziani, F. – "Valutazione degli effetti di sito da dati sismologici in alcuni centri dell'Alta Val Tiberina Umbra" Ingegneria Sismica, Gennaio-Aprile 2002.
- Ponziani, F.; "Valutazione strumentale di effetti locali per la microzonazione sismica di Valfabbrica" Regione dell'Umbria, internal report, December 2001.
- Boncio P., Brozzetti F., Ponziani F., Barchi M., Lavecchia G., Piali G. "Seismicity and extensional tectonics in the Northern Umbria-Marche Apennines" "Memore della società geologica Italiana, vol. LII, Results of the crop03 deep seismic reflection profile, suppl. al Bollettino della Società geologica Italiana, volume CXVII, 1998.
- R. de Franco, F. Ponziani, G. Biella, Boniolo G., Corsi A. Caielli G., Maistrello M. & Morrone A. "DSS-WAR Experiment in support of the CROP-O3 Project." Memore della società geologica Italiana, vol. LII, Results of the crop03 deep seismic reflection profile, suppl. al Bollettino della Società geologica Italiana, volume CXVII, 1998.
- Ponziani F., De Franco R., Biella G. "Geophysical reinterpretation of 1974 and 1978 DSS experiments in support of the Crop 03 project" Memore della società geologica Italiana, vol. LII, Results of the crop03 deep seismic reflection profile, suppl. al Bollettino della Società geologica Italiana, volume CXVII, 1998.
- Ponziani F. - "Preelaborazione di dati sismici nell'ambito del progetto CROP, sottoprogetti CROP 03 e CROPARE2: recupero e memorizzazione su supporto informatico dei parametri di acquisizione e estrazione dati grezzi" - relazione finale dell'incarico di collaborazione professionale conferito dal prof. Vincenzo Petrini, Direttore dell'Istituto di Ricerca sul Rischio Sismico. Perugia, 1995.
- Ponziani F. "Nuova interpretazione di dati di sismica a rifrazione profonda in Italia Centrale." Geodinamica e Tettonica Attiva del Sistema Tirreno-Appennino" Volume speciale degli Studi Geologici Camerti, 1995.
- Ponziani F., Biella G., De Franco R. "CROP03 W.A.R.: acquisizione ed interpretazione di dati di sismica a rifrazione crostale a supporto ed integrazione del progetto NVR CROP-03" Atti del 13° Convegno Nazionale del G.N.G.T.S, Roma 1994.
- Ponziani F., De Franco R., Minelli G., Biella G., Federico C. e Piali G. "Crustal shortening and duplication of the Moho in the Northern Apennines: a view from seismic refraction data." Tectonophysics "Special issue: the origin of sedimentary basins", 1995.
- Chiodini G., Frondini F. e Ponziani F. "Deep structures and Carbon Dioxide degassing in Central Italy". Geothermics, Vol. 24 n.1 - 1995.