

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)

Marco Giardino

Address

Regione Moresco 2, Villarbasse (Turin), 10090, Italy

Nationality

Italian

Date of birth

1961-07-03

Gender

male

Desired employment / Occupational field

Geomorphological mapping in mountain areas (morphostructural conditions of large slope instabilities), studies of geomorphosites for natural heritage protection and geotourist risks prevention

Work experience

Dates

Since 1999

Occupation or position held

Researcher (permanent position) and University Professor in charge

Main activities and responsibilities

- 2007-2008: CNR/ARPA-Piemonte project "Geological and geomorphological constraints for SAR-PS data interpretation in the Piemonte Region": responsible for WP2, Susa Valley, Western Alps.
- 2006-2008: EU INTERREG IIIA Project 196 PERMAdataROC "Creation of a database, data analysis and experimentation of methodologies and instrumentations for measuring rock fall activity and thermal regimes of high mountain rockwalls under permafrost conditions". Participant to analysis of present-day conditioning factors to block/rockfalls and rock avalanches on steep, high-altitude rockwalls (Matterhorn).
- 2005-2007: "Seismic Hazard Zonation Project" by the Civil Protection Service of the Piemonte Region: scientific responsible for geomorphological mapping of test sites in the Western Alps.
- 2002-2007: IFFI Project (National Inventory of Landslides in Italy): scientific responsible for the Aosta Valley Autonomous Region.
- 2003-2007: member of the Italian Glaciological Committee, and participant to the international MIAGEO Project "Use of innovative topographical methods (Geomatics) for the study of the morphodynamics of the Miage Glacier and Mont Blanc slopes.
- 2003-2007: member of the Executive Committee of the Association of European Geological Societies (AEGS) and secretary of its 14th Congress (MAEGS14 - Torino, 2005) on the theme "Natural hazard related to the recent geological evolution"; editor of abstract and field trip books.
- 2002-2004: MIUR-Cofin National Project: "Landslide activity and Climate changes": scientific

	<u>responsible</u> for the Univ. of Torino Research Group. • 2007-2008: Piemonte Region Project "Geosites of the Langhe-Monferrato Hills": <u>participant</u> to geomorphological mapping and remote sensing studies. • 2004-2006: MIUR-PRIN National Project "The Geomorphological Patrimony as a resource for a sustainable tourism": <u>Scientific responsible</u> for the Univ. of Torino Research Group. • 2003-2005: EU INTERREG III Project "Mountains born for the sea – Geotourism activities in the Montgenevre area". <u>Scientific responsible</u> and <u>author</u> of field trip books and videos. • 2001-2004: <u>authors</u> of monographic books on the natural history and the geological-geomorphological patrimony of the Western Alpine valleys (Arve, Sangone, Susa, Aosta). The volume on the natural heritage within the territory of Torino 2006 Winter Olympic Games won the FIST-Geoitalia Contests for best geosites publication. • 2001-2007, <u>leader</u> of the GeoSITLab Laboratory (GIS and Geomatics Laboratory) at the Earth Sciences Department of the University of Torino. • 2000-2007, <u>university professor</u> in charge for: "Geomorphology", and "Applied Geomorphology" at the Geological Science Degree, University of Turin, Faculty of Mathematics, Physics and Natural Sciences. • 2002-2007: <u>university professor</u> in charge for "Environmental Dynamics and Hazards in Earth Sciences" at the University School "SIS-Piemonte" for secondary school teachers. • 2003-2007, <u>university professor</u> in charge for: "Geodynamics and Morphogenesis", at the Geological Science Master Degree, University of Turin, Faculty of Mathematics, Physics and Natural Sciences. • 2002-2007 <u>member</u> of the Earth Sciences Research Ph.D. Teachers Committee of the ISASUT (International School of Advanced Studies University of Torino), as well as <u>lecturer</u> and <u>teacher</u> in short courses and field trips on geomorphological themes.
Name and address of employer	University of Torino – Earth Sciences Department Via Valperga Caluso, 35 - 10125 TURIN - ITALY
Type of business or sector	University Faculty and Research Department
Dates	1995-1997
Occupation or position held	Researcher (Temporary position)
Main activities and responsibilities	CARG Project (Geological and Geomorphological Mapping of Italy, 1/50.000 in Scale) <u>responsible</u> for Quaternary geology and geomorphological mapping in the 153 "Bardonecchia" sheet. <u>Participant</u> to the MIUR-60% project (ccoperation with Univ. of Torino) for the study on the recent geodynamic evolution of the Western Alps.
Name and address of employer	CNR-Geodinamica (Italian National Council of Research, Institute of Research on Geodynamics of the Western Alps) in Torino 10135 TURIN - ITALY
Type of business or sector	Geological and Geomorphological mapping
Dates	August 1993 – March 1994
Occupation or position held	Visiting scientist (USGS Exchange Scientist Program No G.5.153)
Main activities and responsibilities	Paleoseismic Studies in the New Madrid Seismic Zone, Central United States (Resp. A. J. Crone). Geomorphological Mapping and description of the Slumgullion landslide (Resp. R. W. Fleming).
Name and address of employer	U.S.Geological Survey - BELH (Branch of Earthquake and Landslide Hazard) Golden, Colorado, USA
Dates	July 1997 – September 1997
Occupation or position held	Visiting scientist (CNR Short term Fellowship)
Main activities and responsibilities	Studies on the kinematics of the deep-seated slope deformation of Bald Eagle Mountain, Colorado (Resp. W.Z.Savage, D.J. Varnes)
Name and address of employer	United States Geological Survey – Geologic Hazards Team, Denver Federal Centre (Colorado, U.S.A.), Branch of Geological Risk Assessment.

Education and training

Dates	26 October 1987
Title of qualification awarded	Professional Certificate
Principal subjects/occupational skills covered	Audiovisual techniques applied to scientific documentation and communication (resp. Jeffery Boswall, branch director and senior producer BBC, UK)
Name and type of organisation providing education and training	Advanced School, International Forum, Rome
Dates	26 April 1990
Title of qualification awarded	Degree in Geological Sciences
Principal subjects/occupational skills covered	Neotectonics, geological mapping in the Gran Sasso area (Central Apennine, Italy) (resp. Prof. F. Carraro, Prof. L. Vezzani)
Name and type of organisation providing education and training	University of Torino, Department of Earth Sciences
Dates	26 March 1993
Title of qualification awarded	ERASMUS Certificate
Principal subjects/occupational skills covered	European Advanced School on Structural Geology and Neotectonics (resp. Prof. M. Boccaletti, Univ. of Florence)
Name and type of organisation providing education and training	I.C.T.P. (International Centre for Theoretical Physics), Trieste, Italy
Name and type of organisation providing education and training	Doctorate Consortium Cagliari-Genua-Turin Universities
Dates	26 March 1994
Title of qualification awarded	ECTS Certificate
Principal subjects/occupational skills covered	European Advanced School on Structural Geology and Neotectonics (resp. Prof. M. Boccaletti, Univ. of Florence)
Name and type of organisation providing education and training	I.C.T.P. (International Centre for Theoretical Physics), Trieste, Italy
Dates	28 October 1995
Title of qualification awarded	Ph.D. degree in Earth Sciences
Principal subjects/occupational skills covered	Neotectonics and geomorphological studies in the Central Aosta valley (Resp. Prof. F.Carraro, Prof. G. Martinotti)
Name and type of organisation providing education and training	Doctorate Consortium Cagliari-Genua-Turin Universities

Personal skills and competences

Mother tongue(s)

Other language(s)

Self-assessment

European level (*)

Language

Language

Italian

English, (French, Spanish)

Understanding			Speaking			Writing	
Listening		Reading		Spoken interaction		Spoken production	
EN	Independent user		Independent user		Independent user		Independent user
FR	Basic User		Basic User		-		-
SP	Basic User		Basic User				

(*) Common European Framework of Reference for Languages

Annexes

Recent relevant publications

Chiarle M., Giardino M. & Torta D. (1993) - Une expérience d'éducation a la gestion du milieu naturel par animation audiovisuelle. In : Giordan, A. Martinand, J.L. & Raichvarg, D.eds: "Science et technique en spectacle" Actes JIES XV, (1993). DIRES, Paris, France, 407-412.

Giardino M. (1993) - Quelques exemples de communication illustrée des Sciences de la Terre. In: Giordan, A. Martinand, J.L. and Raichvarg, D. eds: "Science et technique en spectacle" Actes JIES XV, (1993). DIRES, Paris, France, 671-675.

Carraro F. & Giardino M. (1993) - General report extract on: "Geological evidence of recent fault evolution. Examples from Campo Imperatore (L'Aquila - Central Apennines)". Bulletin INQUA Neotectonic Commission, 16, 22-23.

Giardino M., Bradley L.A., Collins D.S., Michael J.A. & Crone A.J. (1994) - Conscience du phénomène sismique dans la zone de New Madrid (U.S.A.): une exposition du U.S. Geological Survey. In: Giordan, A. Martinand, J.L. & Raichvarg, D. eds: "L'alphabetisation scientifique et technique" Actes JIES XV, (1994). DIRES, Paris, France, 409-414.

Crone A.J., Giardino M. & Schweig E.S. (1995). Paleoseismic studies of the Bootheel Lineament, Southeastern Missouri, and the Crittenden County Fault Zone, northeastern Arkansas, New Madrid seismic zone, Central United States. U.S. Geological Survey, Map MF-2279, 21 pp.

Giardino M. (1996) - Aspetti metodologici e problemi cartografici dello studio di deformazioni superficiali nella Media Valle d'Aosta. Il Quaternario, 9 (1), 227-232.

Boschis G., Giardino M. & Torta D. (1996) - Risque hydrogéologique et territoire: une expérience didactique visant à la culture de la prévention. In: Giordan A. Martinand J.L. & Raichvarg D.eds: "Les sciences, les techniques et leurs publics" Actes JIES XV, (1996). DIRES, Paris, France, 159-166.

Arobba D., Calderoni G., Caramiello R., Carraro F., Giardino M. & Quagliolo P. (1996) - First report of interstadial deposits in the Ivrea morainic amphitheatre (Alice Superiore, Torino, Italy) - Allionia, 34, 337-342.

Collo G. & Giardino, M. (1997) - Deformation of "Villafranchian" lacustrine sediments in the Chisone Valley (Western Alps, Italy) - J. Geodynamics, vol. 24, Nos 1-4, 281-292.

Giardino M. (1997) - Geomorphology of the Ivrea Morainic Amphitheatre. In Ajassa R. et Al., "Mountains, hills and plains in North-Western Italy". Guide for the excursion o the Fourth International Conference on Geomorphology , Suppl. Geogr. Fis. Dinam. Quat., III, T.2, 49-78.

Arobba D., Calderoni G., Caramiello R., Carraro F., Giardino M., Quagliolo P. (1997) - Palynological and radiometric evidence of a last glacial-interstadial from peat sediments in the Ivrea Morainic Amphitheatre (NW-Italy) - Geol. Insubr., 2, vol.2, 147-148.

Fleming R.W., Baum R.L. & Giardino M. (1999) - Map and description of the active part of the Slumgullion landslide, Hinsdale County, Colorado. U.S. Geological Survey, Map MF , 44 pp, 16 figg. 3 carte geomorfologiche scala 1:1000, a grande formato. (manoscritto rivisto, carte in allestimento per la stampa da parte del Servizio Geologico degli Stati Uniti - Geologic Hazard Team-Central Region, Denver (Colorado, USA).

Giardino M. (2001) - An introduction to Geomorphology and recent geodynamic of the Biellese area. Documenta Naturae – Flora Tertiaria Mediterranea , V, 8, ISSN 1433-1705, 18-23.

Giardino M. (2001) – Structural and orphological evidences of the Castelletto Cervo fault. Documenta Naturae – Flora Tertiaria Mediterranea , V, 8, ISSN 1433-1705, 11-14

Giardino M. (2001) – Quaternary and environmental evolution of the Ivrea district. Documenta Naturae – Flora Tertiaria Mediterranea , V, 8, ISSN 1433-1705, 41-44

Borghi A., Carraro F., Dela Pierre F., Fioraso G., Giardino M., Polino R. (2002) - Note illustrative della

Carta Geologica d'Italia alla scala 1:50.000 – Foglio 132-152-153 “Bardonecchia”.

Giardino M., Mortara G., De Renzo G. (2002). Geosites in the Turin's Province (NW-Italy): scientific researches and exploitation perspectives. In: Coratza P. & Marchetti M. (eds): Geomorphological sites: researches, assessment and improvement. ISBN88-900094-4-6.

Baggio P., Giardino M., Mercalli L (2003) - Val Sangone: Climi e forme del paesaggio da due milioni di anni fa a oggi. SOCIETÀ METEOROLOGICA ITALIANA. - ISBN: 88-900099-4-2. TORINO (pp. 186).

Cirio C., Giardino M. & Luino F. (2003) - L'uso di cartografia storica per l'individuazione delle aree soggette a rischio d'inondazione. Atti della 7° Conferenza nazionale ASITA – Verona, 28-31 Ottobre 2003. p. 777-782.

Giardino M. (2003) – Geositi: valorizzazione e tutela del patrimonio geologico e geomorfologico del territorio. In Di Gangi G. & Lebole C.M. (ed.): Leggere il territorio. Metodi di indagine a confronto. ISBN: 88-88597-33-6. Edizioni Marcovaldo, 193-214.

Giardino, M., Borgogno Mondino E., Perotti, L. (2004) – MIVIS images classification for the geomorphological characterization of large slope instabilities in Aosta Valley (Italian NW-Alps). In: Ehlers, M. Posa, F., Kaufmann, H.J., Michel, U., De Carolis, G.: “Remote Sensing for Environmental Monitoring GIS applications and Geology”, Proceeding of S.P.I.E., vol 5574, 331-340. ISSN: 0277-786X. ISBN: 0-8194-5521-0.

Giardino, M., Giordan, D., Ambrogio S. (2004) - GIS technologies for data collection, management and visualization of large slope instabilities: two applications in the Western Italian Alps. Natural Hazards And Earth System Sciences. vol. 4, pp. 197-211 ISSN: 1561-8633.

Giardino M, Gomasasca M.A., Boccardo P., Borgogno Mondino E. & Perotti L. (2004) - “Airborne sensor MIVIS images for landslide phenomena analysis in mountain areas”. 5th International Symposium on Eastern Mediterranean Geology, Vol. II, Thessaloniky 2004. 708-711.

Boschis G. e Giardino M. (2004) - I monti nati dal mare, Geologia e ambiente tra Dora e Durance. Digital Video. Progetto Interreg III, Regione Piemonte, Università di Torino, Meridiani società scientifica.

Carraro F., Giardino M. (2004). Quaternary Glaciations in the Western Alps: a review. In Ehlers J., Gibbard P.L. Quaternary Glaciations – Extent and Chronology. (pp. 201-208). ISBN: 0444514627. INQUA Special Publication, CD-ROM included. Amsterdam: Elsevier (Netherlands).

AA.VV. (2004) – Instrumented Experimental sites for the control of landslide hazards in mountain environments: the Germanasca and Susa Valleys (Northwestern Italy). Memorie Descrittive della Carta Geologica d'Italia, Volume LXIII (5) P41, 3-40.

Giardino M., Giordan D., Baggio P. and Mortara G., (2005). Map of the Sangonetto Valley Geosites (Western Alps): Geological research and tourism enhancement. 325-336. In: G. Pasquarè, C. Venturini & C. Groppelli (Eds): Mapping Geology in Italy (2004), APAT-SGN, SELCA Firenze. 340 pp.

Carraro F., Alberto W., Giardino M. & Paro L. (2005) – Natural hazards related to recent geological processes and regional evolution. Abstracts. 14th MAEGS, Torino, 19-23 settembre 2005. ISBN: 88-7479-018-X.

Carraro F., Forno M.G., Giardino M. & Paro L. (2005) – Natural hazards related to recent geological processes and regional evolution. MAEGS 14, Field Trip Guide. Il Quaternario - Italian Journal of Quaternary Sciences, 18(2), 3-55.

Deline P., Giardino M. & Nicoud G. (2005) – Le Quaternarie des vallées alpines. Front glaciaires, mouvements de versants et comblements alluviaux dans les vallées de l'Arve, d'Aoste et de Suse. Collection EDYTEM – Cahiers de Géographie, 3, 195 pp. ISSN: 1762-4304. ISBN: 2-9520432-2-1.

Soldati M., Borgatti L., Cavallin A., De Amicis M., Frigerio S., Giardino M., Mortara G., Pellegrini G.B., Ravazzi C., Surian N. & Tellini C. (2006) – Geomorphological evolution of slopes and climate changes in Northern Italy during the Late Quaternary: spatial and temporal distribution of landslides and landscape sensitivity implications. Geogr. Fis. Din. Quat.

Alberto W., Carraro F., Giardino M. & Tiranti D. (2007) – Genesis and evolution of “pseudocarniole”: preliminary data from the Susa Valley (Western Alps). “Evaporites” Geological Society of London Journal. (In Press).

Alberto W., Giardino M., Martinotti G. & Tiranti D. – Geomorphological hazards related to deep dissolution phenomena in the Western Alps: distribution, assessment and interaction with human activities. Engineering Geology (2007).