



## Europass Curriculum Vitae

### Personal information

**First name(s) / Surname(s)** Roberto Rudari  
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**E-mail(s)** roberto.rudari@cimafoundation.org  
**Nationality** Italian  
**Date of birth** 11 Apr 74  
**Gender** Male

### Work experience

**Dates** 19 May 09 →  
**Occupation or position held** Project Leader at CIMA Research Foundation  
**Main activities and responsibilities** Preparation & Management of research projects, Fundraising, Ph.D. students survey, Workshops and meetings organization  
**Name and address of employer** CIMA Research Foundation  
 Via Magliotto 2, 17100 Savona (Italy)  
**Type of business or sector** Professional, scientific and technical activities

**Dates** 1 Jan 07 →  
**Occupation or position held** H2CU Main Contact for University of Genova  
**Main activities and responsibilities** Responsible for the H2CU Honors Centre of Italian Universities grants at the University of Genova; students exchange programmes and grants between Italy and USA  
**Name and address of employer** H2CU - SAPIENZA Università di Roma  
 Via Eudossiana 18, 00184 Roma (Italy)  
**Type of business or sector** Education

**Dates** 05/03/2006 - 18/05/2009  
**Occupation or position held** Research Manager at University of Genova  
**Main activities and responsibilities** Preparation & Management of research projects, Fundraising, Ph.D. students survey, Workshops and meetings organization  
**Name and address of employer** University of Genova  
 Via Balbi 5, 16100 Genova (Italy)  
**Type of business or sector** Research

**Dates** 03/03/2003 - 30/12/2005  
**Occupation or position held** Researcher at National Research Council  
**Main activities and responsibilities** Development of research projects related to Water management and Flood Risk for the National Group for prevention of Natural Disasters  
**Name and address of employer** National Research Council of Italy (CNR)

Via Madonna Alta 126, 06128 Perugia (Italy)

Type of business or sector

Research

Dates

02/03/2002 - 03/03/2003

Occupation or position held

Post-Doc Position

Main activities and responsibilities

Research activity in the field of Hydrologic Modelling

Name and address of employer

Interuniversity Environmental Monitoring Centre  
Via Cadorna 7, 17100 Savona (Italy)

Type of business or sector

Research

## Education and training

Dates

2 Feb 00 - 21 May 02

Title of qualification awarded

Ph.D. in Hydraulic Engineering

Principal subjects / occupational skills covered

Fluid mechanics, Hydrology, hydraulics, Natural hazards management

Name and type of organisation providing education and training

University of Padova (University)  
Via 8 Febbraio 1848, 2, 35121 Padova (Italy)

Level in national or international classification

ISCED 6

Dates

1 Sep 00 - 1 Sep 01

Title of qualification awarded

Research Grant at Massachussets Institute of Technology

Principal subjects / occupational skills covered

Research, Education, Research activity related to the Ph. D. work of climatology of extreme precipitation.

Name and type of organisation providing education and training

Massachussets Institute of Technology (University)  
77 Massachusetts Avenue, MA 02139 Cambridge (United States)

Level in national or international classification

ISCED 6

Dates

09/09/1992 - 15/04/1998

Title of qualification awarded

Master of SC - Civil Engineering (summa cum Laude)

Principal subjects / occupational skills covered

Civil and Environmental Engineering

Name and type of organisation providing education and training

Università degli Studi di Genova . Facoltà di Ingegneria (University)  
Via Balbi 5, 16100 Genova (Italy)

Level in national or international classification

ISCED 5

Dates

09/04/1997 - 17/11/1997

Title of qualification awarded

MS thesis at VUB

Principal subjects / occupational skills covered

MS Thesis development within the Erasmus/Socrates International Program

Name and type of organisation providing education and training

Vrije Universiteit Brussel (University)  
Pleinlaan 2, 1050 Brussel (Belgium)

Level in national or international classification

ISCED 5

## 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			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	B2	Independent user	B1	Independent user	B1	Independent user

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

Social skills and competences

Exercised teaching and communication skills. Excellent ability of dealing with public talks and exposition.

Organisational skills and competences

Great ability of relations with other people and of team building as well as a natural recognized leadership.

Skills in managing large complex project: scheduling, human and financial resources, criticality analysis.

Technical skills and competences

Exceptional skill in critical reasoning and Problem solving; ability in formalizing complex problems into mathematical models

Computer skills and competences

Database : Advanced  
Internet/Mail: Advanced  
Presentation tools: Advanced  
Spreadsheet: Advanced  
Text processing: Advanced  
Programming languages (Fortran, C, Matlab)  
Unix/linux

Driving licence(s)

A, B

**Additional information**

Assistant professor, Hydrology, Faculty of Engineering, University of Genova.

Research activities in basin geomorphology, Climate and weather predictability, continuous and distributed hydrologic modelling assisted by satellite and remotely sensed information. Other areas of interest are the characterization of joint probability distributions of land effects and vulnerability estimation to flood events, the improvement of combined hydro-meteorological forecast systems based on probabilistic concepts.

Operational and research experience in hydrology, with particular emphasis in flash-flood forecasting and statistical analysis of the extremes.

Programmer of the MIKE – DriFt rainfall-runoff model commercialized by DHI.

Expert in Disaster Risk Reduction policies in connection with EU, an all major International Organizations (e.g., UN-ISDR, UNITAR, UNEP, WMO) Initiatives (APFM, IFI) and NGO's

Guest editor of Hydrology and Earth System Sciences (HESS).

Since 2000: Teaching activity at the Universities of Genova (Italy) in the following fields: Hydrology for civil and environmental engineers; Sewing and water plants; Environmental hydraulics.

Since 2002: Experience as Scientific Director of a number of projects exceeding globally 3 million of Euro.

Author and co-author of 17 papers published on international refereed journals, 15 short papers published on proceedings of international conferences and 60 abstracts presented at international conferences.

Since 2005: referee for a number of international journals: Advances in Water Resources, International journal of Climatology, Journal of Hydrometeorology, Natural Hazards, Natural Hazard and Earth System Sciences, Hydrology and Earth System Sciences, International Environmental Modelling and Software (Iemss), Physical Geography

Since 2009 consultant of WMO – Associated Program on Flood Management as an expert in DRR policies applied to the Integrated Flood Management: Risk assessment, Hazard mapping and Early

## Warning System

Since 2010 consultant of UN-ISDR in the context of the GAR for Global Flood Modelling, Global Vulnerability assessment, Global Risk index development

2011 Representative of the International Flood Initiative (IFI) to the Scientific Preparation workshop to the Global Platform on Disaster Risk Reduction

## Annexes

### Selected Publications:

1. Giannoni, F., G. Roth e R. Rudari, A Semi – Distributed Rainfall – Runoff Model Based on a Geomorphologic Approach, *Physics and Chemistry of the Earth*, 25/7-8, 665-671, [2000].
2. Ferraris L., Rudari R. and F. Siccardi, The uncertainty in the prediction of flash floods in the northern mediterranean environment, *J. of Hydrometeorology*, Vol. 3, No 6, pages 714-727, [2002].
3. Giannoni, F., Roth G., and R. Rudari, Can the behaviour of different basins be described by the same model's parameter set? A geomorphologic framework, *Physics and Chemistry of the Earth*, 28/6-7 pp. 289-295, 2003
4. Rudari R., D. Entekhabi e G. Roth, Terrain and Multiple Scale Interactions as Factors in Generating Extreme Precipitation Events, *J. of Hydrometeorology*, 5(3), 390-404, 2004.
5. Siccardi F., Boni G., Ferraris L., Rudari R., A hydro-meteorological approach for Probabilistic Flood Forecast, *Journal of Geophysical Research*, Vol. 110, No. D5, D05101 10.1029/2004JD005314, 2005.
6. Giannoni, F., Roth G., e R. Rudari, A procedure for drainage network identification from geomorphology and its application to the prediction of the hydrologic response, *Advances in Water Resources*, 28(6), 567-581, 2005, doi:10.1016/j.advwatres.2004.11.013.
7. Rudari R., D. Entekhabi e G. Roth, Large-Scale Atmospheric Patterns Associated with Mesoscale Features Leading to Extreme Precipitation Events in Northwestern Italy, *Advances in Water Resources*, 28(6), 601-614, 2005, doi:10.1016/j.advwatres.2004.11.017.
8. Gabellani S., Giannoni F., Parodi A., Rudari R., Taramasso A. C., Roth G., Applicability of a forecasting chain at different morphological environment, *Advances in Geosciences*, 2, 131–134, 2005, SRef-ID: 1680-7359/adgeo/2005-2-131
9. Ghizzoni T., Lomazzi M., Roth G., Rudari R., Regional scale analysis of the altimetric stream network evolution, *Advances in Geosciences*, 7, 79-83, 2006, SRef-ID: 1680-7359/adgeo/2006-7-79
10. Boni, G., Parodi, A., Rudari, R., Extreme rainfall events: learning from rain gauge time series, *J. of Hydrology*, 327, 304-314, 2006, doi:10.1016/j.jhydrol.2005.11.050
11. Boni, G., Ferraris, L., Giannoni, F., Roth, G., Rudari, R., Flood probability analysis for un-gauged watersheds by means of a simple distributed hydrologic model, *Advances in Water Resources*, 30(10), 2135-2144, 2007, doi:10.1016/j.advwatres.2006.08.009.
12. Giannoni, F., Roth G., Rudari, R., The value of the Italian civil protection system in Integrated Water Management for the Mediterranean environment, Chapter of book in *Integrated Water Management: Practical Experiences and Case Studies (Nato Science Series: IV: Earth and Environmental Sciences)*, Springer editions, ISBN-10: 1402065507, ISBN-13: 978-1402065507.
13. Ghizzoni T., Giannoni F., Roth G., Rudari R., The role of observation uncertainty in the calibration of hydrologic rainfall-runoff models, *Advances in Geosciences*, 12, 33-38, 2007, SRef-ID: www.adv-geosci.net/12/33/2007/
14. Gabellani, S., Silvestro, F., Rudari, R., and Boni, G.: General calibration methodology for a combined Horton-SCS infiltration scheme in flash flood modeling, *Nat. Hazards Earth Syst. Sci.*, 8, 1317-1327, 2008.
15. Segoni, S., L. Leoni, A. I. Benedetti, F. Catani, G. Righini, G. Falorni,, S. Gabellani, R. Rudari, F. Silvestro, and N. Rebori, Towards a definition of a real-time forecasting network for rainfall induced shallow landslides, *Nat. Hazards Earth Syst. Sci.*, 9, 1–15, 2009; www.nat-hazards-earth-syst-sci.net/9/1/2009/
16. Ghizzoni, T., Roth, G., Rudari, R., Multivariate skew-t approach to the design of accumulation risk scenarios for the flooding hazard, *Advances in Water Resources* 33 (2010) 1243–1255
17. Ghizzoni, T., Roth, G., Rudari, R., Multisite flooding hazard assessment in the Upper

Projects:

2002-2005 P.I. of several research projects in the field of Civil Protection commissioned by the National Group for prevention of Natural Disasters

2003-2005 P.I. of several research projects in the field of low flow estimation commissioned by the Regional Agency for the Environment of Liguria (ARPAL)

2004-2007 P.I. of the project SIGRA – Geographic Information System on Flood Risk for insurance purposes, commissioned by the National Association of the Insurance Companies (ANIA)

2005-2007: co-ordinator of research unit in the field of “innovations in hydrology - project DPC-CIMA “Proscenio”

Since November 2007: scientific responsible for CIMA Foundation of the project OPERA – integration between Earth Observation data and operational flash flood prediction systems – Italian Space Agency.

2005-2011 P.I. of a research project commissioned by Regione Autonoma Valle d’Aosta on the implementation of an operational system for issuing flood early warning based on a probabilistic approach

“2010 – 2011 Key expert for the EC DG-ECHO for Risk prevention with focus on Floods, Storms and Droughts - Strengthening the EU disaster management capacity - Good Practices on Disaster Prevention

2011 Consultant for the UN-ISDR Global Assessment Report (GAR) for GFM, -vulnerability and Risk assessment.