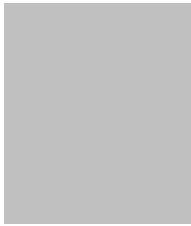


## PERSONAL INFORMATION

## Marco Masetti



✉ marco.masetti@unimi.it

## WORK EXPERIENCE

Oct. 2011 to now

**Associate Professor**

Università degli Studi di Milano - Dipartimento di Scienze della Terra "Ardito Desio"

Via Mangiagalli, 34 Milano 20133

[www.unimi.it](http://www.unimi.it)

- Research: vadose zone characterization and modelling, groundwater vulnerability, managed aquifer recharge. Coordinator of research projects in hydrogeology
- Teaching: courses of Hydrogeology and Engineering Geology for the degree in Geological Sciences and the Master's degree in Earth Sciences. Tutor of Master and PhD theses in Hydrogeology

**Business or sector** Research and Education

Dec 2002 – Sept. 2011

**Research Scientist**

Università degli Studi di Milano - Dipartimento di Scienze della Terra "Ardito Desio"

Via Mangiagalli, 34 Milano 20133

[www.unimi.it](http://www.unimi.it)

- Research: vadose zone characterization and modelling, groundwater vulnerability, effect of infiltration processes on soil slope stability. Participant at research projects in Engineering Geology
- Teaching: courses of Engineering Geology for the degree in Geological Sciences and the Master's degree in Earth Sciences. Tutor of Bachelor and Master PhD theses in Engineering Geology

**Business or sector** Research and Education

Mar 2002 - Aug 2002

**Post-doctoral fellow**

Politecnico di Milano - Dipartimento di Ingegneria Idraulica, Ambientale e del Rilevamento

Piazza Leonardo da Vinci 32 Milano

[www.polimi.it](http://www.polimi.it)

- Research: Groundwater remediation from urban and industrial contamination.

- Student's tutoring and co-teaching

**Business or sector** Research and Education

1997 – Feb. 2002

**Consultant**

Free lance Consultant for private and public companies for groundwater management, remediation activities, risk analysis and engineering geology works

**Business or sector** Industry

EDUCATION AND TRAINING

Jan 1994 – Dec 1996

**PhD in Earth Sciences**

Università degli Studi di Ferrara (Italy)

- Thesis: *Riverbank stability during flood events*

Oct 2005 – Mar 1993

**MSc in Geological Sciences**

Università degli Studi di Milano (Italy)

- Thesis: *Stability analysis of ancient rockslides: influence of clay lenses and triggering factors*

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
Replace with name of language certificate. Enter level if known.					
Spanish	B1	B1	A2	A2	A1
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

Good communication skills gained through my experience in teaching in University courses and giving public talks in national and international conferences

Organisational / managerial skills

Good organisational skills gained through the management of University staff in many Research Projects and teaching activities, the participation in the Governing Board of Scientific Associations and in the Organizing Committee of Scientific Congresses

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient User	Independent User	Basic User	Independent User	Proficient User

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

- :
- Good command of office suite (word processor, spread sheet, presentation software)
  - Excellent command in groundwater numerical modelling through finite elements models and spatial statistical tools, gained in the research career

Driving licence Category B

ADDITIONAL INFORMATION

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Publications See Annex 1

Projects See Annex 2

Presentations and Conferences More than 60 oral and poster presentations in many International (AGU, IAH, IAMG, ISRM, NASA-LCLUC, EGU, Euregeo,) and National (AIGA, FIST-Geotitalia, GIT, SGI) Congresses

Memberships and professional services

- Coordinator of the Hydrogeological Section of the Geological Italian Society
- Member of the Governing Board of the Italian Chapter of the International Association of Hydrogeologists (IAH)
- Member of the International Association of Mathematical Geosciences (IAMG)
- Member of the American Geophysical Union (AGU)
- Referee for many peer-review journals: Journal of Environmental Management, Hydrological Processes, Environmental Progress & Sustainable Energy, Water Resources Management, Environmental Monitoring and Assessment, Science of the Total Environment, Geofluids.

Congress Organization

- Member of the Organizing Committee of FLOWPATH 2017, the 3rd Congress of the Italian chapter of IAH, Cagliari 14-16 June 2017
- Member of the Organizing Committee of AQUA 2015, the 42nd Congress of IAH, Roma 13-18 September 2015
- Member of the Organizing Committee of FLOWPATH 2014, the 2nd Congress of the Italian chapter of IAH, Viterbo 18-20 June 2014
- Member of the Organizing Committee of FLOWPATH 2012, the 1st Congress of the Italian chapter of IAH, Bologna 20-22 June 2012

General responsibility roles

2015-2018 Elected Member of the Academic Senate of Università degli Studi di Milano, Milan, Italy  
 2012-2018 Member of the Steering Committee of the PhD School in Earth Sciences at the Università degli Studi di Milano, Milan, Italy

Media and Press

Results of some researches have been reported by different media, among which:

- NASA Earth Science Research Future 2016. Sensing our planet. Also available online (<https://earthdata.nasa.gov/sensing-our-planet/soiled-soils>) .
- NASA <http://www.nasa.gov/jpl/space-radar-helps-track-underground-water-pollution-risk>
- Environmental News Network <http://www.enn.com/pollution/article/48365>
- Phys.Org <http://phys.org/news/2015-03-space-radar-track-underground-pollution.html>

Certifications Professional geologist certificate

ANNEXES

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- Annex 1: List of selected Publications;
- Annex 2: List of selected Projects

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date

Signature

Milan 09/11/2018



## ANNEX 1: LIST OF SELECTED PUBLICATIONS

1. **Masetti M.**, Pettinato S., Nghiem S.V., Paloscia S., Pedretti D., Santi E. (2018). Combining COSMO-SkyMed satellites data and numerical modeling for the dynamic management of artificial recharge basins. *Journal of Hydrology*. 567, 41–50
2. Pedretti D., **Masetti M.**, Beretta G.P. (2017). “Stochastic analysis of the efficiency of coupled hydraulic-physical barriers to contain solute plumes in highly heterogeneous aquifers”. *Journal of Hydrology*. 553, 805–815. <http://dx.doi.org/10.1016/j.jhydrol.2017.08.051>.
3. Stevenazzi S., Bonfanti M., **Masetti M.**, Nghiem S.V., Sorichetta A. (2017). A versatile method for groundwater vulnerability projections in future scenarios. *Journal of Environmental Management* 1-10. <http://dx.doi.org/10.1016/j.jenvman.2016.10.057>
4. Berehanu B., Azagegn T., Ayenew T., **Masetti M.** (2017). “Inter-Basin Groundwater Transfer and Multiple Approach Recharge Estimation of the Upper Awash Aquifer System”. *Journal of Geoscience and Environment Protection*, 5, 76-98. <https://doi.org/10.4236/gep.2017.53007>.
5. Bonfanti, M., Ducci, D., **Masetti, M.**, Sellerino, M., Stevenazzi, S. (2016) Using statistical analyses for improving rating methods for groundwater vulnerability in contamination maps. *Environmental Earth Sciences*, 75 (12). DOI 10.1007/s12665-016-5793-0
6. **Masetti M.**, Pedretti D., Sorichetta A., Stevenazzi S., Bacci F.: (2016) “Impact of a Storm-Water Infiltration Basin on the Recharge Dynamics in a Highly Permeable Aquifer”. *Water Resources Management*, 10.1007/s11269-015-1151-3
7. **Masetti M.**, Nghiem S.V., Sorichetta A., Stevenazzi S., Fabbri P., Pola M., Filippini M., Brakenridge G.R. (2015) “Urbanization Affects Air and Water in Italy’s Po Plain”. *EOS*. 96, 21, 13-16, doi:10.1029/2015EO037575
8. Camera C., Apuani T., **Masetti M.** (2015) “Modeling the stability of terraced slopes: an approach from Valtellina (Northern Italy)”. *Environmental Earth Sciences*. doi: 10.1007/s12665-015-4089-0.
9. Stevenazzi S., **Masetti M.**, Nghiem S.V., Sorichetta A. (2015) Groundwater vulnerability maps derived from a time-dependent method using satellite scatterometer data. *Hydrogeology Journal*. doi: 10.1007/s10040-015-1236-3
10. Camera C., Apuani T., **Masetti M.** (2014) “*Mechanisms of failure on terraced slopes: the Valtellina case (northern Italy)*”, *Landslides*, doi 10.1007/s10346-012-0371-3.
11. Pedretti D., **Masetti M.**, Beretta G.P., Vitiello M. (2013). “A Revised Conceptual Model to Reproduce the Distribution of Chlorinated Solvents in the Rho Aquifer (Italy)”. *Groundwater Monitoring & Remediation*, 33, 69-77, doi: 10.1111/gwmmr.12017.
12. Sorichetta A., Ballabio C., **Masetti M.**, Robinson G.R Jr., Sterlacchini S (2013) “*A Comparison of Data-Driven Groundwater Vulnerability Assessment Methods*” *Ground Water*, doi: 10.1111/gwat.12012
13. Sorichetta A., **Masetti M.**, Ballabio C. Sterlacchini S. (2012) “*Aquifer nitrate vulnerability assessment using positive and negative Weights of Evidence methods, Milan, Italy,*” *Computers & Geosciences*, <http://dx.doi.org/10.1016/j.cageo.2012.05.021>.
14. Camera C., **Masetti M.**, Apuani T. (2012) “*Rainfall, infiltration, and groundwater flow in a terraced slope of Valtellina (Northern Italy): field data and modelling*” *Environmental Earth Sciences*” 65, 1191-1202, doi 10.1007/s12665-011-1367-3.
15. Pedretti D, **Masetti M.**, Marangoni T, Beretta G.P. (2012) “*Slurry wall containment performance: monitoring and modelling of unsaturated and saturated flow*”, *Environmental Monitoring and Assessment*, 184, 607-624, doi 10.1007/s10661-011-1990-1.
16. Sorichetta A, **Masetti M.**, Ballabio C., Sterlacchini S., Beretta G.P., (2011). “*Reliability of groundwater vulnerability maps obtained through statistical methods*”. *Journal of Environmental Management*, 92, 1215-1224, doi:10.1016/j.jenvman.2010.12.009.
17. Sterlacchini, S., Ballabio C., **Masetti M.**, Sorichetta A., (2011). “*Spatial agreement of predicted patterns in landslide susceptibility maps*”. *Geomorphology*, 125, 51-61, doi:10.1016/j.geomorph.2010.09.004.
18. **Masetti M.**, Diolaiuti G., D’Agata C., Smiraglia C., (2010): “*Hydrological Characterization of an Ice-Contact Lake: Miage Lake (Monte Bianco, Italy)*.” *Water Resources Management*, 24, 1677-1696, doi 10.1007/s11269-009-9519-x.
19. **Masetti M.**, Sterlacchini S., Ballabio C., Sorichetta A., Poli S., (2009): “*Influence of threshold value in the use of statistical methods for groundwater vulnerability assessment*” *Science of the Total Environment*, 407, 3836-3846, doi: 10.1016/j.scitotenv.2009.01.055.
20. **Masetti M.**, Poli S., Sterlacchini S., Beretta G.P., Facchi A. (2008). “*Spatial and statistical assessment of factors influencing nitrate contamination in groundwater*”. *Journal of Environmental Management* 86, 272-281, doi:10.1016/j.jenvman.2006.12.023.

## ANNEX 2: LIST OF SELECTED PROJECTS

Scientific projects as Principal Investigator

2018: *European Community*: Excellency Network Building for Comprehensive Research and Assessment of Geofluids' (ENeRAG) - Horizon 2020 Framework Programme, H2020-WIDESPREAD-05-2017-Twinning. (Responsible of the Research Unit) (3 years)

2017: *CAP Holding*: "Evaluation of factors affecting vulnerability of drinking supply wells" (P.I.: M. Masetti) (1 year)

2016: *Eupolis Lombardia*: Technical and scientific support for the Water Management Plan of Lombardia Region. (P.I.: M. Masetti) (9 months)

2014: Scientific coordinator and organizer of the POPLEX project (PO PLain Experiment- <http://urban.jpl.nasa.gov/poplex/description.html>). A series of field surveys, tests and meetings on the effect of Urban Sprawl on Environmental matrices. Participants: Researchers from NASA Jet Propulsion Laboratory, University of Southampton, Université Libre de Bruxelles, CNR-IFAC, Università degli Studi di Padova, Alma Mater Studiorum Università di Bologna. Milan-Padua-Bologna-Florence May 2014 (Project results published on EOS v.96, n°21)

2014 – *Ethiopian Ministry of the Foreign Affairs*: Teaching, Research and Advisory Services for the PhD Program in Hydrogeology. Department of Earth Science, University of Addis Ababa, Ethiopia (2 months)

2013/14: *ARPA Lombardia*: "Hydrogeological study of the area between Adda and Oglio rivers and groundwater contaminants situation in the Zingonia Area" (P.I.: M. Masetti). (2013, 18 months)

2013: *ERSAF Lombardia* – Regional Office for Agricultural and Forestal Services: "Identification of groundwater vulnerability areas to agricultural sources of nitrate" (P.I.: M. Masetti). (1 year)

2010: *Istituto Regionale di Ricerca della Lombardia (IRER)*: "Influence of infiltration basin on shallow aquifers in the greater Expo 2015 area: Phase 2 – Designing, monitoring and basin management" (P.I.: G.P. Beretta and M. Masetti). (1 year)

2008: *Istituto Regionale di Ricerca della Lombardia (IRER)*: "Influence of infiltration basin on shallow aquifers: infiltration and contaminant problems" (P.I.: G.P. Beretta, M. Masetti). (1 year)

2008: *Fondo Ambiente Italiano (FAI)*: "Hydrological cycle, recharge and management strategies of the Blue Lake in Campodolciino (SO)". (P.I.: M. Masetti G. Sfondrini) (1 year)

2004: *Regione Lombardia* "Methods and guidelines for agricultural soils management (SIGMA)" (P.I.: G.P. Beretta, M. Masetti). (1 year)

Main Research projects as official participant

2013: *NASA*: "Mega Urban Changes and Impacts in the Decade of the 2000s" (P.I.: S. Nghiem, Jet Propulsion Laboratory) (3 years)

2013: *European Community*: FP7 ENV.2012.6.4-2: "Long-term monitoring experiment in geologically active regions of Europe prone to natural hazards: the Supersite concept. MED\_SUV (MEDiterranean SUPersite Volcanoes)" EC-INGV. (Unit Responsible: T. Apuani, Università degli Studi di Milano) (3 years)

2006: *MIUR*: PRIN 2005: "Evaluation of hydrogeological techniques for DNAPL groundwater contaminated sites". Research Unit of Milan " (Unit Responsible: G.P. Beretta, Università degli Studi di Milano). (2 years)

2006: *COMUNITA' MONTANA DELLA VALCHIAVENNA (FONDAZIONE CARIPLO Project)*: "Development of an expert-systems for water management in mountainous areas" (Unit Responsible: G. P. Beretta, Università degli Studi di Milano). (2 years)

2005: *GNV-INGV project*: "Monitoring and research activity at Stromboli and Panarea -Evaluation of possible scenarios of deformation and dynamics of the Sciara del Fuoco" (P.I. P. Papale – INGV). Research Unit "Slope instabilities at Stromboli: looking for the instability thresholds" (Unit Responsible: T. Apuani, Università degli Studi di Milano). (2 years)

2005: *European Community*: INTERREG III-B: "Alpine space". Progetto ALPTER "Terraced landscape in the Alpine environment" (project Leader: regione Veneto). Research Unit of Milan "Management and socio-environmental analysis of the terraced landscape of Valchiavenna (SO)" (Unit Responsible: G. Sfondrini, Università degli Studi di Milano). (2 years)