

PERSONAL INFORMATION

Valentina Vincenzi

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WORK EXPERIENCE

1 Aug 10–Present

Geologist freelance at



Studio Geologico Vincenzi Valentina

Via Nives Gessi, 3 – 44122 Ferrara (FE) Italy

Website www.idrogeologiavincenzi.it

Consultant in Hydrogeology:

- Numerical modelling of groundwater flow, contaminant transport, saltwater intrusion and heat transport
- Hydrogeology applied to underground engineering works (tunnels, dams, deep foundations, ...)
- Groundwater wells design
- Groundwater field test: hydrogeological field surveys, permeability tests, tracer tests with saline and fluorescent dyes, ...
- Groundwater monitoring
- Groundwater wells and heat pumps design for low enthalpy geothermal energy systems
- Characterization and remediation of groundwater polluted areas
- Hydrogeological consultancy in the frame of cooperation/International programs
- Research activity in the sector of Hydrogeology.

1 Aug 03–30 Jul 10

Grant researcher

University of Ferrara, Earth Sciences Department, Ferrara (Italy)

- Research activity in the field of Hydrogeology
- Working on national and international research programs
- Teaching activity
- Scientific publications

EDUCATION AND TRAINING
(main activities)

30 Nov 19

Giornata di Studio sul giacimento termale di Porretta ed il suo territorio

Porretta Terme (BO), 7 hours.

8 Nov 19

Convention "Alla scoperta degli impianti di perforazione e delle loro applicazioni"

Piacenza Expo, GeoFluid, 8 hours.

- 4 Oct 18 Convention "Utilizzo del sottosuolo in ambito urbano. Tecnologie e modalità operative"
Convention "Pozzi per acqua, sapere leggere il presente per potere scrivere il futuro".
Piacenza Expo, GeoFluid, 8 hours.
- 21 Feb 18 Training course "La progettazione dei pozzi per l'acqua - Risorse idriche sotterranee - Utilizzo sostenibile - UNIVERSITA' PROGETTISTI E IMPRESE A CONFRONTO".
Università di Padova, Dipartimento di Geoscienze, 4 hours.
- 14 Oct 16 Training course DHI Academy "Modellazione numerica delle acque sotterranee nei sistemi di geoscambio e per altri utilizzi antropici".
Università di Padova, Dipartimento di Geoscienze, 4 hours.
- 7 Oct 16 Convegno IAH-ANIPA "Geoscambio – Heat exchange"
Piacenza Expo, GeoFluid, 8 hours.
- 11 Jun 15 Training course "Organo-clorurati ed idrogeologia delle aree urbane: inquinamento puntuale o diffuso? – Chlorinated solvents and groundwater: point or diffuse contamination?"
Regione Emilia-Romagna, Bologna, 8 hours.
- 19-20 May 15 Training course "The role of the professional Geologist in the activities of Civil Protection – 2nd level"
Protezione Civile, Ordine Geologi Emilia-Romagna, Argenta, Ferrara (Italy)
Professional training course, 16 hours.
- 10-11 Dec 14 Training course "Water challenge and the cities – The language of innovation – 2014 edition"
Climate KIC, ASTER, REDINN, Bologna (Italy)
Professional training course, 16 hours.
- 20 Nov 14 & 4 Dec 14 Training course "Low-enthalpy geothermal energy and heat pumps. Technical, operative and legal issues"
Regione Emilia-Romagna, ERVET e Ordine dei Geologi Emilia-Romagna, Bologna (Italy)
Professional training course, 16 hours.
- 19 Sep 14 Training course "Remediation technologies of in situ oxidation"
Remtech training school – II edition, Ferrara (Italy)
Professional training course, 4hours.
- 6 Jun 14 Training course "The role of the professional Geologist in the activities of Civil Protection – 1st level"
Protezione Civile, Ordine Geologi Emilia-Romagna, Bologna (Italy)
Professional training course, 8hours.

- 31 Mar 08–4 Apr 08 **Certificate in “Groundwater modelling using FEFLOW 5.3”**
WASY-DHI, Berlin (Germany), 40 hours
- 1 Jan 03–20 Mar 07 PhD in Earth Sciences**
University of Ferrara, Ferrara (Italy)
thesis in Hydrogeology about: “Groundwater flow systems and tunnel drainage in fractured aquifer of turbidites”. Supervisors: Prof. Alessandro Gargini, University of Ferrara (Italy), Dr. Nico Goldscheider, University of Neuchâtel (Switzerland).
- 20 Sep 06–23 Sep 06 **Certificate in "Practical modelling of saltwater intrusion in aquifers: a workshop on variable-density flow and solute-transport simulation"**
U.S.G.S. (USA) - Cagliari University, Cagliari (Italy)
- 27 Jun 05–1 Jul 05 **PhD summer school “New geo-technologies for the monitoring and the protection of water resources”**
University of Ferrara, Ferrara (Italy)
- 1 Mar 05–31 Jul 05 Master Degree “Engineering applications for human development”**
Universidad Oberta de Catalunya e Ingeniería Sin Fronteras, Barcelona (Spain)
- 3 May 05–6 May 05 **Certificate in “Expert in the management of polluted sites”**
SitiContaminati, Rome (Italy), 30 hours
- 20 Sep 04–24 Sep 04 **Certificate in “Modelación matemática del flujo y del transporte de contaminantes en las aguas subterráneas”**
Universidad Politecnica de Valencia, Valencia (Spain), 30 hours
- 1 Jan 04–30 Jul 04 Postgraduate diploma in Hydrogeology**
Polytechnic University of Cataluña (Spain), Barcelona (Spain)
Thesis: Hydrogeological study of tertiary and quaternary aquifer inside the alluvial deposits of middle course of Fluvià River and Manol River, northern sector (Alt Empordà – Girona – Spain). – Original title: Estudio hidrogeológico del acuífero terciario y cuaternario entre los aluviales del curso medio del Río Fluvià y del Río Manol, sector Norte (Alt Empordà - Girona).
- 3 Jun 03–7 Jun 03 **Certificate in “Integrated course on G.I.S. (Bentley MicroStation GeoGraphics, Microsoft Access, ESRI Arc View, Intergraph Geomedia)”**
University of Urbino, Urbino (Italy), 30 hours
- 17 Jun 03–20 Jun 03 **Certificate in “Groundwater modelling - Theory and applications with MODFLOW 2000, MODPATH & MT3D”**
Waterloo Hydrogeologic - Università di Roma “La Sapienza”, Rome (Italy), 30 hours
- 1 Oct 97–21 Dec 02 Master’s Degree in Geological Sciences**
University of Ferrara, Ferrara (Italy)
Thesis in Hydrogeology: “Comparison of different methodologies for the definition of the hydrogeological impact of a tunnel: the case of Firenze tunnel (High Speed railway connection)

Bologna-Florence)". Supervisors: Prof. Alessandro Gargini, Prof. Giovanni Maria Zuppi.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B1
Spanish	B2	B2	B1	B1	B1

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

Organisational / managerial skills - good organisational skills gained in my actual freelance position

Computer skills

- good command of office suite (word processor, spread sheet, presentation software)
- good knowledge and frequent use of specific softwares for hydrogeology: MODFLOW-2000, MT3D-MS, SEAWAT-2000, PEST, FEFLOW 5.2., Surfer 8.0, AquaChem 3.7, Aquifer Test.
- good knowledge of Qgis and ArcGIS softwares

Driving licence B

ADDITIONAL INFORMATION

Projects

Involvement in **International Programs**:

BioDiNet Programma Italia/Slovenia "Rete per la conservazione della biodiversità e del paesaggio culturale" (CUP D52D11000140003)

GEP Programma Italia/Slovenia "Sistema informativo territoriale (GIS) congiunto per la protezione delle risorse d'acqua potabile in casi di emergenza" (CUP D15E11001400003)

GENESIS "Groundwater and dependent Ecosystems: New Scientific and Technical Basis for Assessing Climate Change and Land-use Impacts on Groundwater Systems" - EU 7th framework programme, theme: environment, di cui al Grant Agreement n. 226536

NORISC (EU 5th Framework Programme) " Network oriented risk-assessment by in-situ screening of contaminated sites"

Publications

International and national referred papers:

Ronchetti F., Piccinini L., Deiana M., Ciccarese G., Vincenzi V., Aguzzoli A., Malavasi G., Fabbri P., Corsini A. (2020) *Tracer test to assess flow and transport parameters of an earth slide: The Montecagno landslide case study (Italy)*. Engineering Geology, 275, 2020.
<https://doi.org/10.1016/j.enggeo.2020.105749>

Vincenzi V., Sapigni M. (2019) *Hydrogeological characterization and parameters estimation of the aquifer close to the Adige River (Verona, Italy) for the design of deep excavations – Caratterizzazione idrogeologica e parametrizzazione idrodinamica dell'acquifero golenale del Fiume Adige (Verona, Italia) per la progettazione di scavi profondi*. Acque Sotterranee, Italian Journal of Groundwater, 2019, DOI 10.7343/as-2019-349.

Pomaro C., Vincenzi V., Furin S., Fazzini M., Minarelli L., Macolino S. (2018) Seasonal changes in dry matter yield from Karst pastures as influenced by morphoclimatic features. September 2018PLoS ONE 13(9):e0204092 – DOI: 10.1371/journal.pone.0204092

Vincenzi V., Furin S., Fazzini M., Zagoršek T., Jugovic J. (2014) *The importance of hydrogeological, geological and climatic features in the karst landscape for the protection of water resources and biodiversity*. In: Buzan E. & Pallavicini A. (2014) Biodiversity and Conservation of karst ecosystems.

Koper, September 2014.

Piccinini L., De Nardo M. T., Filippini M., Segadelli S., Vincenzi V., Gargini A. (2014) *Protezione idrogeologica di sorgenti in acquiferi fratturati non carsici*. GEAM, anno LI, n. 3, dicembre 2014, pp. 73-92.

Gargini A., De Nardo M.T., Piccinini L., Segadelli S., Vincenzi V. (2014) *Spring discharge and groundwater flow systems in sedimentary and ophiolitic hard rock aquifers: Experiences from Northern Apennines (Italy)*. In: Sharp J.M. ed., "Fractured Rock Hydrogeology". IAH Series n°20, CRC press, Balkema, 129-146.

Vincenzi V., Gargini A., Goldscheider N., Piccinini L. (2013) *Differential hydrogeological effects of draining tunnels through the Northern Apennines, Italy*. Rock Mechanics and Rock Engineering, DOI 10.1007/s00603-013-0378-7.

Piccinini L., Vincenzi V., Pontin A., Tonet F. (2012) *Modello di trasporto di calore per il dimensionamento di un sistema di geoscambio a circuito aperto*. Acque Sotterranee. DOI: 10.7343/AS-011-12-0030.

Vincenzi V., Rossetti S., Riva A., Piccinini L. (2011) *Verso una migliore conoscenza del sistema carsico del Cansiglio: il primo tracciamento delle acque sotterranee dimostra l'origine delle sorgenti del Livenza*. Bollettino della Società Naturalisti "Silvia Zenari" – Pordenone, n.35/2011, ISSN 1720-0245.

Vincenzi V., Riva A., Rossetti S. (2011) *Towards a better knowledge of Cansiglio karst system (Italy): results of the first successful groundwater tracer test*. Acta Carsologica, 40/1, 2011, pp. 147-159.

Bonzi L., Calabrese L., Severi P., Vincenzi V. (2010) *L'acquifero freatico costiero della regione Emilia-Romagna: modello geologico e stato di salinizzazione*. Il geologo dell'Emilia-Romagna, Anno X/2010 n.39, pp. 21-36.

Rossetti S., Vincenzi V., Riva A. (2010) *Per una migliore conoscenza del Sistema Carsico di Pian Cansiglio: una prova di tracciamento conferma il collegamento tra l'Abisso Col della Rizza e le sorgenti del Livenza*. Speleologia Emiliana, n.1, 2010, anno XXI, V serie.

Piccinini L. & Vincenzi V. (2010) *Impacts of a railway tunnel on the streams baseflow verified by means of numerical modeling*. Aqua Mundi, Vol. 1, Issue 2, pp. 123-134. DOI 10.4409/Am-020-10-0016.

Vincenzi V., Piccinini L., Gargini A., Sapigni M. (2010) *Parametric and numerical modeling tools to forecast hydrogeological impacts of a tunnel*. Aqua Mundi, Vol. 1, Issue 2, pp. 135-154, DOI 10.4409/Am-021-10-0017.

Vincenzi V. & Goldscheider N. (2009) *Los túneles de la AV en los Apeninos (Italia): impactos hidrogeológicos caracterizados mediante ensayos de trazadores*. El agua y las infraestructuras en el medio subterráneo: textos de las ponencias y comunicaciones libres. Barcelona, 24-26 noviembre 2008 / Cabrera, M.C., Vallejos, A., Valverde, M., Lambán, J.L., eds.- Madrid: Instituto Geológico y Minero de España, 2009.

Ronchetti F., Borgatti L., Cervi F., Gorgoni C., Piccinini L., Vincenzi V., Corsini A. (2009) *Groundwater processes in a complex landslide, Northern Apennines, Italy*. Nat. Hazards Earth Syst. Sci., 9, 895-904, 2009. Available at: www.nat-hazards-earth-syst-sci.net/9/895/2009/

Vincenzi V., Gargini A., Goldscheider N. (2009) *Using tracer tests and hydrological observations to evaluate effects of tunnel drainage on groundwater and surface waters in the Northern Apennines (Italy)*. Hydrogeology Journal, 17(1):135-150. DOI: 10.1007/s10040-008-0371-5.

Piccinini L., Vincenzi V., Gargini A. (2008) *Modellazione di flusso a densità variabile di un acquifero freatico salinizzato*. Giornale di Geologia Applicata, 9(2):249-261.

Gargini A., Vincenzi V., Piccinini L., Zuppi G., Canuti P. (2008) *Groundwater flow systems in turbidites of the Northern Apennines (Italy): natural discharge and high speed railway tunnel drainage*. Hydrogeology Journal, 16(8):1577-1599. DOI: 10.1007/s10040-008-0352-8.

Piccinini L., Vincenzi V., Gargini A. (2008) *Monitoraggio idrogeologico e modellazione del flusso a densità variabile per la previsione della salinizzazione indotta da una cava di sabbia in un acquifero costiero superficiale (Ferrara)*. Ingegneria e Geologia degli Acquiferi, 23:77-86.

Books and monographs:

Piccinini L., Gargini A., Martelli L., Vincenzi V. (2012) *Alto Bacino del Fiume Montone. Cartografia idrogeologica per la protezione delle risorse idriche sotterranee nelle unità torbiditiche*. Regione Emilia-Romagna Servizio Geologico, Sismico e dei Suoli, Alma Mater Studiorum Università di Bologna.

Canuti P., Gargini A., Martelli L., Piccinini L., Vincenzi V. (2009) *Le gallerie TAV attraverso l'Appennino toscano: impatto idrogeologico ed opere di mitigazione*. Edifir, Firenze, 2009, ISBN 978-88-7970-411-3.

Presentations *National and International scientific congresses:*

- 4 contributions as author and speaker
- 35 contributions as co-author

Meetings and workshops:

- 13 contributions as speaker

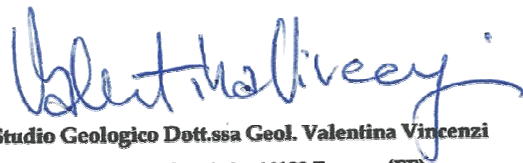
Scientific referee *Referee activity for the journals:*

- Acque Sotterranee – Italian Journal of Groundwater (PagePress)
- Engineering Geology (Elsevier eds.)
- Frammenti. Conoscere e tutelare la natura bellunese (Provincia di Belluno Dolomiti Editore)
- Hydrogeology Journal (Springer)
- Minerals (MDPI eds.)
- Rock Mechanics and Rock Engineering (Springer eds.)
- Journal of Hydrology (Elsevier eds.)
- Water (MDPI eds.)

Memberships

- Professional Register of Geologists of Emilia-Romagna Region (OGER): from 26 Oct 2010
- International Association of Hydrogeologists: from Sep 2004
- National Association of Hydrogeology and Water Wells (Associazione Nazionale di Idrogeologia e Pozzi per acqua, ANIPA): from 2011.

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