EUROPEAN CV

PERSONAL INFORMATION

Name	**MATTIA MARINI**
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Nationality	Italian
Date of birth	5TH JANUARY, 1978

WORK EXPERIENCE

• 01/08/2013-present	Post-Doc research fellow
• Name and address of the employer	Università degli Studi di Milano – Dipartimento di Scienze della Terra "Ardito Desio"
• Type of company/institution	Research and Academic institution
• Position held	research fellowship
• Main research topics	- Quatitative sedimentology of deep water deposits with main focus on the architecture of turbidite infill of confined/ponded basins and Mass Transport Deposits. Case studies include the Castagnola Fm. (Bacino Terziario Piemontese, Oligocene inf.), the Laga Fm. (Central Appenine foreland basin system, Messinian) and the Ventimiglia Flysch Fm. (Liguria, Eocene Sup.). - Geostatistical facies modeling of the Late Glacial Maximum Brenta megafan (Venetian) based on a large borehole dataset (including 5290 wells) using Petrel 2013.
• 01/03/2012-30/06/0212	Urbisit Project - the assessment of geologic hazard in the urban area of Rome
• Name and address of the employer	G4M S.r.l., C.N.R. I.G.A.G., Area della Ricerca di Roma1 - Montelibretti, Via Salaria Km 29,300, Monterotondo (RM); customer: **Dipartimento di Protezione Civile**
• Type of company/institution	Consulting company
• Position held	Self employed consultant
• Main tasks	Data entry and vectorialization of geologic information in database and GIS data repository for the italian Civil Protection Agency (DPC)
• 15/03/2012-present	Modeling of stratigraphic-sedimentologic data from the Tiber delta subsurface
• Name and address of the employer	Dipartimento di Scienze della Terra, Università di Roma "La Sapienza". Piazzale Aldo Moro 5, Roma; customer: **ENI S.p.A.**
• Type of company/institution	Research institution
• Position held	Self employed consultant
• Main tasks	- Interpretation of Lidar textured models and intensity point clouds - modeling of stratigraphic-sedimentologic data from the Tiber delta subsurface based on boreholes and geophysical surveys
• 01/11/2011-31/10/2012	Seismic microzoning of some municipalities in the neighbouring of Aquila
• Name and address of the employer	Dipartimento di Ingegneria Strutturale e Geotecnica, Università di Roma "La Sapienza", Via E. Gianturco, 2 00196 Roma
• Type of company/institution	Research institution
• Position held	Research fellow

• Main tasks	Aim of the research was the reconstruction of a geologic-stratigraphic reference model for assessing earthquake site response
• 01/06/2010 – 30/09/2010	Geologic modeling of the Palatino Hill (downtown Rome) for earthquake site response
• Name and address of the employer	C.N.R. I.G.A.G., Area della Ricerca di Roma1 - Montelibretti, Via Salaria Km 29,300, Monterotondo (RM)
• Type of company/institution	Research institution
• Position held	Free-lance geologist
• Main tasks	Interpretation of subsurface datasets (boreholes and geophysics) aimed at the geologic-stratigraphic model for assessing earthquake site response
• 20/03/2010-20/04/2010	Geologic-structural mapping survey for the feasibility project of the trans-andean railway base tunnel in the Aconcagua district
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; costumer: **GEODATA S.p.A.**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Team leader in geologic mapping survey of meso-cenozoic volcano-sedimentary successions in the Aconcagua region (Argentina-Chile) for the feasibility study of Tunel de Baja Altura, Ferrocarril Transandino (Base Tunnel of the Trans-andean High Speed Railway). Other tasks include the definition of the geological-hydrogeological Reference Models for the optimization of tunnel design, planning and construction
• 10/07/2008-31/03/2009	Revision of geologic map sheets to be published under the auspices of the national geologic mapping programme (CARG project)
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; Customer: **Servizio Geologico della Provincia Autonoma di Trento**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Revision of about 270 km^2 of geologic surveys form the official CARG project map sheet n°46 "Trento" and n°55 "Mezzolombardo".
• 01/10/2008-30/09/2010	Research appointment on the Shell/Statoil sponsored project "Facies, geometries and architecture of channel and lobe elements of the Messinian Laga1 and Laga2 units (Laga Basin, central Italy)".
• Name and address of the employer	Dipartimento di Scienze della Terra, Università di Roma “La Sapienza”. Piazzale Aldo Moro 5, Roma . Customers: **Norske Shell A.S. and Statoil-Hydro A.S.A.**
• Type of company/institution	Research institution
• Position held	Research fellow
• Main tasks	Facies analysis and physical stratigraphy of turbidites from the Laga Basin and comparison of field data with seismic and boreholes form North Sea reservoirs aimed at defining predictive models for facies architecture of turbidite depositional lobes
• 05/04/2007-31/09/2007	Geologic-structural mapping survey for the feasibility of the Trento-Rovereto (Trentino, Northern Italy) railway by-pass
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; customer: **Provincia Autonoma di Trento**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Geologic-structural mapping survey and definition of a structural-hydrogeologic reference model to forecast rock mass conditions and water inflow during boring operations. Other tasks include structural analysis with specialist software, drawing of maps and geologic cross sections and drafting of reports
• 01/03/2007-05/04/2007	Geologic-structural field survey for the Gimigliano dam (Melito river, Calabry).

• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; customer: **Astaldi S.p.A.**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Geologic-structural mapping survey for stratigraphic reconstruction and interpretation of complex brittle structures affecting the slopes bounding the dam basin. Other tasks include structural analysis with specialist software, drawing of maps and geologic cross sections and drafting of reports
• 01/09/2006-05/01/2007	Geologic and structural mapping for the planning of motorway infrastructure (Salerno-Reggio C . Motorway)
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; customer: **CARENA S.p.A.**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Geologic mapping survey aimed at the stratigraphic reference model for predicting tunnel face types during excavation. Other tasks include drawing of maps and geologic cross sections and drafting of reports
• 01/07/2005-31/05/2007	Hydrogeological studies to aid the planning of the Brenner Basis Tunnel
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; customer: **Brenner Basis Tunnel SE**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Analysis of hydro-geochemistry data aimed at defining the draw-down hazard for springs and water inflows in the tunnel.
• 01/01/2005-31/12/2005	Integrated analysis of geologic, structural and hydro-geochemistry data aimed at defining the hydrogeologic reference model for the Brenner Basis Tunnel planning phase
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; customer: **Brenner Basis Tunnel SE**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Integrated analysis of geologic, structural and hydro-geochemistry data aimed at defining the hydrogeologic reference model. Other tasks include structural analysis with specialist software, drawing of maps and geologic cross sections and drafting of reports
• 04/09/2004-15/12/2004	Geologic-structural-hydrogeologic mapping survey aimed at the hydrogeological characterization of the Brenner Basin Tunnel project corridor
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; customer: **Brenner Basis Tunnel SE**
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA
• Main tasks	Geologic and structural mapping survey in the Tauri Window aimed at the characterization of permeability structure of main fault zones. Other tasks include geo-structural details for rock mass quality designation, analysis with specialist software, drawing of maps and geologic cross sections and drafting of reports
• 03/03/2004-03/09/2004	Geologic mapping survey for the national geologic mapping project (CARG)
• Name and address of the employer	SeaConsulting S.r.l., Via Cernaia 27, Torino; customer: Servizio Geologico della Provincia Autonoma di Trento.
• Type of company/institution	Consulting company in engineering geology
• Position held	Free-lance geologist, consultant for SEA

• Main tasks	Geologic mapping survey for the CARG map sheets n°46 "Trento" and n° 55 "Mezzolombardo"

RESEARCH COLLABORATIONS, EDUCATION, LIFELONG LEARNING

• 10/2011-present	Associate researcher
• Name and type of institution	**Turbidite Research Group**, University of Leeds
• Main research focus	- Quantitative sedimentology of ponded/confined turbidite systems - Depositional architecture and processes of Mass Transport Deposits - Fluid dynamics of turbidity currents from tank experiments
• 07/10/2010-07/03/2011	Stay at the School of Earth and Environment, University of Leeds on **Royal Society/Accademia dei Lincei 2010 grant** for outgoing researchers
• Name and type of institution	School of Earth and Environment, University of Leeds (UK)
• Main research focus	Comparison of turbidite facies and strata patterns from the outcrop (Salto-Tagliacozzo and Laga basins, Central Apennine, Italy) with experimental data on fluid dynamics of turbidity currents
• 01/02/2010-30/02/2010	Stay at the oil company **Norske Shell A.S.** (Stavanger)
• Name and type of institution	Shell Norske A.S
Main research focus	Comparison of turbidite facies and strata patterns from the outcrop (Laga basins, Central Apennine, Italy) and subsurface data from the North Sea
• 04-11/10/2009	IAS International Summer School of Sedimentology 2009
• Name and type of institution	International Association of Sedimentologists
• Main topics	Sedimentology, ciclostratigraphy and sequence stratigraphy applied to basin analysis of two depositional analogues (Sorbas and Tabernas basins Almeria, Spain) for confined turbidite basins and shelf-ramp carbonate systems
• 05-10/09/2008	School of structural geology G. Pialli edition 2008: Foreland basin system of western Europe. Lecturer: Professor P. Allen
• Name and type of institution	Dipartimento di Scienze della Terra dell'Università degli studi di Perugia
• Main topics	Geodynamic and stratigraphic principles and concept applied to basin analysis of foreland systems
• 02-07/05/2008	Computer sedimentary simulation (Sedpak) and sequence stratigraphy. Lecturer: Professor Chris Kendall
• Name and type of institution	Dipartimento di Scienze della Terra dell' Università degli studi di Milano
• Principali materie / abilità professionali oggetto dello studio	Introduction to sequential-stratigraphic modeling with SedPak software
• 07-11/09/2007	Contribution to turbidite facies analysis and geologic reconstruction of Apennines, Bobbio (PC), Italia. Lecturer: E. Mutti, R. Tinterri
• Name and type of institution	Federazione Italiana di Scienze della Terra, GEOITALIA 2007
• Main topics	Short course on turbidites focusing on facies and their significance
• 22/12/2006-30/09/2010	PhD student in Earth Science
• Name and type of institution	Dipartimento di Scienze della Terra, Università di Roma "La Sapienza"
• Research object	Depositional architecture of turbidite lobes form the Messinian Lag Basin (Central Apennine, Italy)
• **Title obtained**	**Philosophy Doctor**
• 01/10/1996-23/10/2003	Bachelor and Master in Geology
• Name and type of institution	Dipartimento di Scienze della Terra, Università di Rom a "La Sapienza"
• **Title obtained**	**Bachelor and Master degree,** full marks (110/110 cum laude)

ADDITIONAL SKILLS

MOTHER TONGUE	**ITALIAN**
OTHER LANGUAGES	
	English
• Reading	IELTS band score 7
• Writing	IELTS band score 6
• Conversation	IELTS band score 6.5
TECHNICAL SKILLS	Specialist software for visualization and modelling geologic data: -ArcGis 10 (advanced skill in basic applications and good knowledge of 3D Analyst tools for spatial modeling of data) -Petrel 2013 (petrophysical modeling module) Specialist software for statistic analysis: -Minitab 15
DRIVING LICENSES	Italian/European driving license type B

papers:

1) **Marini M**, Patacci M., Felletti F., McCaffrey, W.D. *in preparazione*. Assessing fill and spill architecture of a turbidite mini-basin from vertical trends: the Castagnola Fm. case study, Early Miocene, NW Italy) in corso di revisione interna e sottomissione ad una rivista specialistica quale ad esempio Petroleum Geoscience o Marine and Petroleum Geology

2) **Marini, M.**, Milli, M., Ravnas, R., and Moscatelli, M., (2015). A comparative study of confined vs. semi-confined turbidite lobes from the Lower Messinian Laga Basin (Central Apennines, Italy): implications for assessment of reservoir architecture. Marine and Petroleum Geology 63 (2015) 142-165.

3) Alfarè, L., Donnici, S., **Marini, M.**, Moscatelli, M., Tosi, L., Vallone, R., 2014. The Impact of Land Subsidence on Preservation of Cultural Heritage Sites: The Case Study of Aquileia, Venetian-Friulian Coastland, North-Eastern Italy. G. Lollino et al. eds., Engineering Geology for Society and Territory-Volume 4, Publisher: Springer International Publishing, pp.179-182. DOI: 10.1007/978-3-319-08660-6_34.

4) **Marini, M.**, Mancari., P., Damiano, A., Alzate, M., Stra, M., 2014. The Geological Reference Model for the feasibility study of the Corredor Bioceanico Aconcagua base tunnel, Argentina-Chile Trans-Andean railway. G. Lollino et al. eds., Engineering Geology for Society and Territory. Volume 6. Publisher: Springer International Publishing, pp.623-627. DOI: 10.1007/978-3-319-09060-3_110.

5) Bigi, S., Milli, S., Corrado, S., Casero, P., Aldega, L., Botti, F., Moscatelli, M., Stanzione O., Falcini, F., **Marini, M.**, and Cannata, D. (2009) - Stratigraphy, structural setting and thermal history of the Messinian Laga Basin in the context of Apennine foreland basin system. Journal of Mediterranean Earth Sciences, v. 1, p. 61-84.

6) Falcini, F., **Marini, M.**, Milli, S. & Moscatelli, M. (2009). An inverse problem to infer paleo-flow conditions from turbidites. Journal of Geophysical Research, 114, C10019, doi: 10.1029/2009JC005294.

7) **Marini M.**, Milli S.& Moscatelli M. (2011) Facies and architecture of the Lower Messinian turbidite lobe complexes from the Laga Basin (central Apennines, Italy). Journal of Mediterranean Earth Sciences ***3**, 45-72*

8) Mancini M., Marini M., Moscatelli M., Pagliaroli A., Stigliano F., Di Salvo C., Simionato M. Cavinato G. P., Corazza A. (2014) A physical stratigraphy model for seismic microzonation of the Central Archaeological Area of Rome (Italy). Bulletin of Earthquake Engineering. DOI 10.1007/s10518-014-9584-2

extended abstracts:

5) **Marini M.**, Milli S.& Moscatelli M., Patacci M. McCaffrey, W.D. (2012). Facies and processes from the confined Salto-Tagliacozzo Basin (Messinian, Central Apennines): from the outcrop to tank experiments. 86° Congresso Nazionale della Società Geologica Italiana - sessione GS5 - Sedimentary and Biological Processes TS5.1 Terrigenous signatures in sedimentary basin analysis. Soc. Geol. It., Vol. 21 (2012), pp. 906-908, 2 figs.

6) **Marini M.**. Milli S. Rossi M., De Tomasi V., Meda M., Lisi N. (2013) Multi-scale characterization of the Pleistocene-Holocene Tiber delta deposits as
a depositional analogue for hydrocarbon reservoirs. Journal of Mediterranean Earth Sciences, Special Issue (2013), 103-109

7) Mancini M., Moscatelli M., Stigliano F., Cavinato G. P., **Marini M**., Pagliaroli A., Simionato M. (2013) Fluvial facies and stratigraphic architecture of Middle Pleistocene incised valleys from the subsoil of Rome (Italy). Journal of Mediterranean Earth Sciences, **Special Issue** (2013), 89-93.

poster:

8) **Marini M,** Patacci M., Felletti F., Southern S., McCaffrey, W.D. (2014). Assessing turbidite depositional architecture and ponding through bed and facies statistics: an example from the Castagnola mini-basin (Early Miocene, NW Italy). Poster session of the Petroleum Group conference: Reducing Subsurface Uncertainty & Risk through Field-based Studies. 4-6 March 2014 The Geological Society, Burlington House, Piccadilly, London.

chapters in volumes:

9) Milli S., Moscatelli M., **Marini M**., Stanzione O. (2009) – The Messinian turbidites deposits of the Laga Basin (Central Apennines, Italy). In: Northern and Central Apennines
Turbidites (Italy) edited by Tinterri R., Muzzi Magalhaes P., Milli S., Marini M., Moscatelli M.,
Stanzione O., Field Trip 12, 27th IAS meeting 24-28 September 2009, Alghero, Italy, 35-54. ISBN 978-88-6025-123-7.

10) Mancini M, Moscatelli M, Corazza A, Pagliaroli A, Stigliano F, Simionato M, Tommasi P, Cavinato GP, Piscitelli S, **Marini M**, Giaccio B, Sottili G (2011) Assetto geologico, idrogeologico e geotecnico dell'area archeologica comprendente il colle Palatino, i Fori e il Colosseo. Aggiornamento alla luce dei risultati della nuova campagna di indagini. In: Cecchi R (ed) Roma Archæologia, Interventi per la tutela e la fruizione del patrimonio Archeologico, terzo rapporto. Mondadori Electa, Milano, vol. 2, pp 28-51. ISBN 978-88-370-8737-1

additional publications:

11) Avanzini, M., Borsato, A., **Marini, M.,** Morelli, C., Passamani, A., Piccin, G., Piffer, S., Santacattarina, M., Tomasoni, R., Vallone, R., Varrone D. – (2011) Carta Geologica d'Italia alla scala 1:50.000: foglio 046 Mezzolombardo. ISPRA, Servizio Geologico d'Italia, 2011 (e contributo alle note illustrative).

12) Cocco S., Avanzini M., Nardin M., Bargossi G.M., Borsato A., Selli L., Demozzi M., Ferretti P., Lunz M., **Marini M.**, Moretti A., Passamani S., Piccin G., Piffer G., Piubelli D., Tomasoni R., Santacattarina M., Spanò M., Vallone R., Varrone D., Zandonai F., Carta Geologica d'Italia alla scala 1:50.000: foglio 060 Trento. ISPRA, Servizio Geologico d'Italia, 2010 (e contributo alle note illustrative).

20/11/2018