



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5907

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Scienze della Terra "A. Desio".

Scientist-in-charge: Prof. Marco Masetti

**Chiara Zuffetti**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Zuffetti
Name	Chiara

### PRESENT OCCUPATION

Appointment	Structure
Type A Postdoctoral Fellow	Dipartimento di Scienze della Terra, Università degli Studi di Milano

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Master Degree	Earth Sciences	Università degli Studi di Milano	2015
PhD	Earth Sciences	Università degli Studi di Milano	2019

### FOREIGN LANGUAGES

Languages	Level of knowledge
English	Proficient user
French	Basic user

### AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2021	<b>Award.</b> SGI (Geological Society of Italy) Award for the best ECRs paper in Sedimentary Geology
2020	<b>Award.</b> SPE EAGE-Assomineraria "Gustavo Sclocchi" Award for the best PhD Thesis in Geosciences and Petroleum Engineering
2019	<b>Award.</b> INQUA-International Quaternary travel grant, awarded for the International Summer School on Active Tectonics and Tectonic Geomorphology (Prague-CZ)
2019	<b>Award.</b> Best poster presented by Early Career Scientists at IAS Meeting of Sedimentologists (Rome)
2019	<b>Award.</b> "Ricchetti" Award - Special mention for the best talks of Early Career Scientists at GIT-Geosciences and Information Technologies Congress (Melfi)
2019	<b>Award.</b> "David Giuntini" Scientific Award for the best PhD Thesis (Marina di Massa)
2017	<b>Scholarship</b> Swiss-European Mobility Programme as visiting PhD Student at the Centre d'hydrogéologie et de géothermie (Neuchatel-CH). Duration of funding: Feb-July 2017
2015	<b>Scholarship</b> provided by Italian Ministry of Education, University and Research (MIUR) for PhD program in Earth Sciences at Dipartimento di Scienze della Terra (Milano)



## TRAINING OR RESEARCH ACTIVITY

### Feb 2021-present **Post-doc Research Fellow**

Università degli Studi di Milano, Dipartimento di Scienze della Terra - Milano (MI)  
Project title: 'Geological and geophysical constraints for space-time modelling of hydrostratigraphy'  
Activity: Geological and hydrostratigraphic modeling of sedimentary basins  
Major topics: Sedimentary basins, hydrostratigraphy, 3D geological modelling

### Feb 2020-Feb 2021 **Research Fellow (Type B)**

Università degli Studi di Milano, Dipartimento di Scienze della Terra - Milano (MI)  
Activity: Characterization and modelling of the 3D hydrostratigraphic architecture of the Lombardy Alps (Italy). Architectural models are the basis for regional-scale hydrogeological modelling aimed at managing the subsurface water resources  
Major topics: Alpine geology, hydrostratigraphy, 3D geological modelling, GIS data management

### Nov 2018-Nov 2019 - **Research collaborator**

Università degli Studi di Milano, Dipartimento di Scienze della Terra - Milano (MI)  
Activity: i) Cooperation on interpreting the morpho-tectonic evolution of the Po Plain-Apennines border (Lombardy-IT); ii) cooperation on developing a novel geo-modelling workflow integrating spatial geological information with descriptive constraints derived from the geological interpretation

### Feb 2017-Jul 2017 - **Visiting PhD Student** (funded by Swiss-European Mobility Programme)

Université de Neuchâtel, Centre d'hydrogéologie et de géothermie - Neuchâtel (Switzerland)  
Activity: Collaboration on 3D modelling techniques in the Research group led by Prof. P. Renard  
Major topics: 3D Geological modelling (GeoModeller), GIS data management (ArcGIS, QGIS)

### Oct 2015-Sep 2018 - **PhD Student** in Earth Sciences

Università degli Studi di Milano, Dipartimento di Scienze della Terra - Milano (MI)  
PhD Thesis: 'Characterization and modelling of complex geological architectures: The Quaternary fill of the Po Basin at the Po Plain-Apennines border'. Advisor: Prof. R. Bersezio, Co-advisor: Prof. A. Comunian, Coordinator: Prof. E. Erba  
Major topics: Quaternary geology, Geological mapping, Geomorphology, Geopedology, GIS, 3D geo-modelling, Sedimentology, Stratigraphy

### Oct 2012-Apr 2015 - **Master Student** in Earth Sciences

Università degli Studi di Milano, Dipartimento di Scienze della Terra - Milano (MI)  
*Curriculum Sedimentary Basins and Energetic Resources*  
MSc Thesis: 'Origine e architettura degli acquiferi Quaternari della Pianura Iodigiana: ricostruzione 3D in ambiente GIS'. Final mark: 110 cum laude/110. Advisor: Prof. R. Bersezio. Co-Advisor: E. Cavalli, Ph. D.  
Topics: Analysis, correlation, and interpretation of subsurface stratigraphic logs; set-up and implementation of GIS geo-DB; coupling of geological maps and subsurface stratigraphic dataset; hydrostratigraphy; interpolation and 3D visualization using GIS

### 2013-2014 - **Apprentice geologist** at GeoArbor Studio - Vaprio D'Adda (MI)

Activity Execution and interpretation of geological engineering surveys; writing of geotechnical reports; GIS management and implementation of geological and hydrological geo-Database. 150 hours.

### Feb 2014 - **Field assistant geologist** cooperating with VISPE Onlus - Karuzi Province (Republic of BURUNDI)

Assistance in the execution of preliminary geognostic surveys for a hydrological project; implementation of GIS-based geological and hydrological Geo-database



## PROJECT ACTIVITY

Year	Project
2020-present	<p><i>TACHRIFT project. Investigating stratigraphic architecture and controlling factors of turbidite depositional systems in the Taza-Guercif Basin, NE Morocco.</i> Project leader: Prof F. Felletti - Università degli Studi di Milano</p> <p>Activity: Geological field surveys in Tachrift District (<b>Morocco</b>); detailed sedimentological description; stratigraphic logging and correlations; facies analysis and 3D modelling</p>
2021-2023	<p><i>LEMON project. Landscape Evolution Monitoring and Outreach Network.</i> Project leaders: E. Srivastava - Indian Institute of Technology Kanpur, N. Parrino - University of Palermo. Supported by INQUA-TerPro Commission.</p> <p>Activity: Networking with ECRs on Landscape Evolution triggering mechanisms; organization of Winter School in Palermo (Italy, 12/2022); organization of a Congress Session at the 21th INQUA-INTERNATIONAL QUATERNARY CONGRESS in Rome (Italy, 07/2023)</p>
2020-2021	<p><i>PHENIX project.</i> Project leader: Prof. P. Renard - University of Neuchatel.</p> <p>Activity: Geological field surveys on glacial and fluvial deposits in the Aare valley (<b>Switzerland</b>); sedimentological description and subsurface (hydro-) stratigraphic correlation; geophysical surveys; geomodelling of the sedimentary heterogeneity</p>
2020-2021	<p><i>IDROMONT project. Characterization of groundwater bodies in the mountainous areas of Lombardy Region, aimed to the protection and management of groundwater resources (Caratterizzazione dei corpi idrici collocati nelle porzioni collinari e montane del territorio regionale Lombardo, ai fini della tutela e gestione delle risorse idriche sotterranee).</i> Project leader: Prof. M. Masetti, Università degli Studi di Milano</p> <p>Activity: GIS geo-database implementation, tectono-(hydro-) stratigraphic reconstruction, 3D geological modelling</p>
2019	<p><i>Modellazione dell'eterogeneità dei sistemi idrostratigrafici ed idrologici con metodi geofisici e geostatistici: approcci gerarchici e multi-scala (Modelling of the hydrostratigraphic heterogeneity with geophysical and geostatistical methods: hierarchic and multi-scale approaches).</i> Project leader: Dr. A. Comunian - Università degli Studi di Milano</p> <p>Activity: Development of a modelling workflow formalizing geological hierarchy and chronology as explicit modelling rules; integration GIS-3DGeoModeller software.</p>
2018	<p><i>Caratterizzazione dell'eterogeneità idrostratigrafica con metodi geofisici e geostatistici: approcci gerarchici e multi-scala (Characterization of the hydrostratigraphic heterogeneity using geophysical and geostatistical methods: hierarchic and multi-scale approaches).</i> Project leader: Dr. A. Comunian - Università degli Studi di Milano</p> <p>Activity: Geological mapping and geophysical surveys in the Southern Po Plain (<b>Italy</b>) to constrain the subsurface 2D and 3D reconstructions of the Quaternary sedimentary fill.</p>
2014	<p><i>Preliminary Mission for hydroelectric power plants on Ruvubu and Ndurumu rivers, with italian Onlus VISPE.</i> Team leader: Dr. Geol. C. Leoni - VISPE, GeoArbor Studio.</p> <p>Activity: Field assistance in the execution of preliminary geognostic surveys in Gitega, Ngozi and Karuzi districts (<b>Burundi</b>); implementation of GIS geological and hydrological Geo-Database.</p>



## CONGRESSES AND SEMINARS

Date	Title	Place
09/2023	Congress of SIMP, SGI, SOGEI, AIV - Italian Mineralogy and Petrology Society, Italian Geological Society, Italian Geochemical Society, Italian Volcanology Society [ <b>Scientific Committee</b> ]	Potenza-IT
07/2023	21 <sup>st</sup> INQUA Congress - International Quaternary [ <b>Talk</b> ]	Rome-IT
07/2023	12 <sup>th</sup> International Conference on Fluvial Sedimentology [ <b>Conference Organization Team; Short Course organizer; Poster</b> ]	Riva del Garda-IT
28-29/06/2023	Meeting GeoSed - Italian Association for Sedimentary Geology [ <b>Poster</b> ]	Torino-IT
06/2023	IAS International Meeting of Sedimentology - International Association of Sedimentologists [ <b>Poster</b> ]	Dubrovnik-HR
05/2023	Seminar on TACHRIFT Project at ENI headquarter [ <b>Invited Talk</b> ]	San Donato Milanese-IT
10/03/2023	Seminar “An introduction to the study of channel-levee turbidite systems from an outcrop perspective” at Département de Géologie de la Faculté Polydisciplinaire de Taza [ <b>Invited Talk</b> ]	Taza-Morocco
23/11/2022	Seminar “3D Geology for aquifer characterization: from mountain ranges to alluvial basins” at the Institut für Geologie, Mineralogie und Geophysik of the Rur [ <b>Invited Talk</b> ]	University of Bochum-Germany
09/2022	Congress of SGI - Italian Geological Society [ <b>Convener; Talk</b> ]	Torino-IT
13-17/06/2022	Meeting GeoSed - Italian Association for Sedimentary Geology [ <b>Poster</b> ]	Bari-IT
09/02/2022	Giornate Assereto 2022 - Seminars at the Dipartimento di Scienze della Terra “A. Desio” [ <b>Talk</b> ]	Milano-IT
2/12/2021	Incontri di Geologia GeoSed 2021 - Italian Association for Sedimentary Geology [ <b>Invited Talk</b> ]	Roma-IT
19-30/04/2021	EGU General Assembly - European Geosciences Union [ <b>Talk</b> ]	web conference
17/03/2021	Workshop sulla modellazione geologica 3D [ <b>Talk</b> ]	web conference
10/02/2021	Giornate Assereto 2021 - Seminars at the Dipartimento di Scienze della Terra “A. Desio” [ <b>Talk</b> ]	web conference
4-8/05/2020	EGU General Assembly - European Geosciences Union [ <b>Talk</b> ]	web conference
7/02/2019	Giornate Assereto 2019 - Seminars at the Dipartimento di Scienze della Terra “A. Desio” [ <b>Talk</b> ]	Milano-IT
24-27/09/2019	INQUA International Summer School on Active Tectonics and Tectonic Geomorphology - International Quaternary	Prague-CZ
16-19/09/2019	Congress of SGI-SIMP-SOGEI - Italian Geological Society [ <b>Talk; Poster</b> ]	Parma-IT
10-13/09/2019	34 <sup>th</sup> IAS International Meeting of Sedimentology - International Association of Sedimentologists [ <b>Poster</b> ]	Roma-IT
25-31/08/2019	INQUA Congress - International Quaternary [ <b>Poster</b> ]	Dublin-IRE
17-19/06/2019	14 <sup>th</sup> Congress of GIT - Geosciences and Information Technologies [ <b>Talk</b> ]	Melfi-IT



31/05/2019	Giornata di Studio e Premiazione Concorso Scientifico Premio “David Giuntini” 2018 - Ordine dei Geologi della Toscana; Fondazione dei Geologi della Toscana <b>[Invited talk]</b>	Marina di Massa-IT
30/12/2018	Incontri di Geologia GeoSed 2018 - Italian Association for Sedimentary Geology	Roma-IT
13-14/06/2018	Il Quaternario: passato, presente, futuro - AIQUA, Italian Association for Quaternary Research <b>[Talk]</b>	Firenze-IT
18-23/02/2018	4th Meeting of the European 3D Geomodelling Community <b>[Poster]</b>	Orléans-FRA
6-8/02/2018	Giornate Assereto 2018 - Seminars at the Dipartimento di Scienze della Terra “A. Desio” <b>[Talk]</b>	Milano-IT
30/12/2017	Incontri di Geologia GeoSed 2017 - Italian Association of Sedimentary Geology	Roma-IT
18/10/2017	Preistoria e Protostoria in Lombardia e Canton Ticino - Istituto Italiano di Preistoria e Protostoria	Milano-IT
17-21/07/2017	11th International Conference on Fluvial Sedimentology-ICFS <b>[Talk]</b>	Calgary-CAD
16-20/06/2017	Meeting GeoSed - Italian Association for Sedimentary Geology <b>[Poster]</b>	Perugia-IT
08/05/2017	PhD Congress 2017 at the Centre of Hydrogeology and Geothermics UniNE <b>[Talk; Poster]</b>	Neuchatel-CH
01/04/2017	CH-QUAT Meeting - Swiss Association for Quaternary research <b>[Poster]</b>	Neuchatel-CH
06/03/2017	Seminar at the Centre of Hydrogeology and Geothermics UniNE <b>[Invited talk]</b>	Neuchatel-CH
22-24/02/2017	Giornate Assereto 2017 - Seminars at the Dipartimento di Scienze della Terra “A. Desio” <b>[Talk]</b>	Milano-IT
1-2/12/2016	Incontri di Geologia GeoSed 2016 - Italian Association for Sedimentary Geology	Roma-IT
27-30/09/2016	Rain Rivers Reservoir Conference - Geological Society of London	Edinburgh-UK
16-17/06/2016	Geocronologia e Cronostratigrafia del Quaternario, Luci e Ombre - AIQUA, Italian Association for Quaternary Research	Bologna-IT
5-6/5/2016	The Italian Sedimentologists meet Ronald Steel, 2-days workshop - Italian Association for Sedimentary Geology	Potenza-IT
3/05/2016	In un Pozzo di Scienza - Seminar on Prof. Alfredo Bini’s Research	Milano-IT
23-28/04/2016	EGU General Assembly - European Geosciences Union <b>[Poster]</b>	Wien-A





## PUBLICATIONS

<a href="#">Articles in peer-reviewed journals</a>
Stevenazzi, S., <b>Zuffetti, C.</b> , Camera, C.A.S., Lucchelli, A., Beretta, G.P., Bersezio, R., Masetti, M. Hydrogeological characteristics and water availability in the mountainous aquifer systems of Italian Central Alps: a regional scale approach. <a href="#">JOURNAL OF ENVIRONMENTAL MANAGEMENT</a> , 340. <b>2023</b>
<b>Zuffetti, C.</b> , Felletti, F., Marini, M. Turbidite channel-levée transitions: insights from the Tachrift system (Complex 6, Taza-Guercif Basin, NE Morocco). <a href="#">Rendiconti Online della Società Geologica Italiana</a> , 59. <b>2023</b>
Felletti, F., Pantopoulos, G., <b>Zuffetti, C.</b> , Reguzzi, S., Invernizzi, D., Bellin, N., Marini, M. The Tachrift Project: Sedimentary architecture of turbidite channel-levée deposits (Tachrift Turbidite System, Taza-Guercif Basin, Tortonian, NE Morocco). <a href="#">Rendiconti Online della Società Geologica Italiana</a> , 59. <b>2023</b>
Reguzzi, S., Marini, M., Felletti, F., Elkati I., <b>Zuffetti C.</b> , Tabyaoui H. Stratigraphic evolution of a spectacularly exposed turbidite channel belt from the Tachrift System (late Tortonian, north-east Morocco). <a href="#">SEDIMENTOLOGY</a> . <b>2022</b>
<b>Zuffetti, C.</b> , Bersezio, R. Space-time geological model of the Quaternary syntectonic fill of a foreland basin (Po basin, Northern Italy). <a href="#">SEDIMENTARY GEOLOGY</a> , 105945. <b>2021</b>
<b>Zuffetti, C.</b> , Bersezio, R. Morphostructural evidence of Late Quaternary tectonics at the Po Plain-Northern Apennines border (Lombardy, Italy). <a href="#">GEOMORPHOLOGY</a> , 364(107245). <b>2020</b>
<b>Zuffetti, C.</b> , Comunian, A., Bersezio, R., Renard, P. A new perspective to model subsurface stratigraphy in alluvial hydrogeological basins, introducing geological hierarchy and relative chronology. <a href="#">COMPUTERS AND GEOSCIENCES</a> , 140(104506). <b>2020</b>
<b>Zuffetti, C.</b> , Trombino, L., Zembo, I., Bersezio, R. Soil evolution and origin of landscape in a late Quaternary tectonically mobile setting: the Po Plain-Northern Apennines border in Lombardy (Italy). <a href="#">CATENA</a> , 171, 376-397. <b>2018</b>
<b>Zuffetti, C.</b> , Bersezio, R., Trombino, L. Significance of the morphological and stratigraphic surfaces in the Quaternary Po Plain: The San Colombano tectonic relief (Lombardy, Italy). <a href="#">Alpine and Mediterranean Quaternary</a> , 31, 257-260. <b>2018</b>
<b>Zuffetti, C.</b> , Bersezio, R., Contini, D., Petrizzo, M. R. Geology of the San Colombano hill, a Quaternary isolated tectonic relief in the Po Plain of Lombardy (Northern Italy). <a href="#">JOURNAL OF MAPS</a> , 14(2), 199-211. <b>2018</b>
<a href="#">Books/Thesis</a>
<b>Zuffetti, C.</b> Characterization and modelling of complex geological architectures: The Quaternary fill of the Po Basin at the Po Plain-Apennines border (Lombardy, Italy). PhD Thesis. Dipartimento di Scienze della Terra, Università degli Studi di Milano. <b>2019</b>
<a href="#">Reports</a>
Masetti, M., Bersezio, R., Beretta, G. B., Camera, C., Lucchelli, A., Stevenazzi, S., <b>Zuffetti, C.</b> Caratterizzazione dei corpi idrici sotterranei compresi nelle porzioni collinari e montane ai fini della tutela e gestione delle risorse idriche sotterranee. Dipartimento di Scienze della Terra, Università degli Studi di Milano; Regione Lombardia. <b>2021</b>
<a href="#">Congress proceedings</a>
<b>Zuffetti, C.</b> , Maesano, F.E., Bersezio, R., D'Ambrogio, C., Abbate, A. Quantitative models in slow deforming, low-relief landscapes: example from the Central Po Plain (Italy). Abstracts of 21 <sup>st</sup> INQUA-INTERNATIONAL QUATERNARY CONGRESS. Rome-IT. <b>2023</b>
<b>Zuffetti, C.</b> , Bersezio, R., Menga, I., Colombera, L., Renard, P. Alluvial aquifer heterogeneity of the post-glacial fill of Aare Valley (Switzerland): integrated analogue characterization. Abstracts of ICFS-



INTERNATIONAL CONGRESS ON FLUVIAL SEDIMENTOLOGY (p.244). Riva del Garda-IT. **2023**

Menga, I., **Zuffetti, C.**, Bersezio, R., Colombera, L., Renard, P. Sedimentary heterogeneity of the post-glacial alluvial fill of Aare Valley (Switzerland): integrated analogue characterization. Abstracts of GEOSED-ITALIAN ASSOCIATION OF SEDIMENTOLOGISTS Meeting. Bari-IT. **2023**

Stevenazzi, S., **Zuffetti, C.**, Camera, C., Lucchelli, A., Beretta, GP., Bersezio, R., Masetti, M. Groundwater resources management in mountainous areas: a regional scale approach in Lombardy Region (Northern Italy). Abstracts of FLOWPATH congress. Malta. **2023**

**Zuffetti, C.**, Felletti, F., Marini, M. Turbidite channel-levee transitions: the Complex 6 of the Tachrift system (Taza-Guercif Basin, NE Morocco). Abstracts of the 36TH IAS-INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS MEETING (p.269). Dubrovnik-HR. **2023**

Felletti, F., Marini, M., McArthur, A., Pantopoulos, G., Invernizzi, D., **Zuffetti, C.**, Reguzzi, S., Pizzutto, M., El Kati, I., Tabyaoui, H. Sedimentary architecture of turbidite channel-levee deposits: The Tachrift project (Tachrift system, Taza-Guercif Basin, late Tortonian, NE Morocco). Abstracts of the 36TH IAS-INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS MEETING (p.254). Dubrovnik-HR. **2023**

Reguzzi, S., Marini, M., Felletti, F., **Zuffetti, C.**, El Kati, I., Tabyaoui, H. Architecture, evolution, and controls of channel-levee: Complex 4 from the Tachrift System (Taza-Guercif Basin, NE Morocco). Abstracts of the 36TH IAS-INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS MEETING (p.266). Dubrovnik-HR. **2023**

**Zuffetti, C.** 3D Geology for aquifer characterization: from mountain ranges to alluvial basins. Abstracts of the INSTITUTE SEMINARS at Institut für Geologie, Mineralogie und Geophysik, Ruhr University of Bochum-D. **2022**

**Zuffetti, C.**, Bersezio, R. Lucchelli, A., Stevenazzi, S., Masetti, M. From 2D geological maps to 3D models: A case-study in the Central Alps (Lombardy, Italy). Abstracts of SGI-SOCIETÀ GEOLOGICA ITALIANA CONGRESS. Turin-IT. **2022**

Invernizzi, D., Felletti, F., Marini, M., Elkati, I., Pantopoulos, G., Reguzzi, S., **Zuffetti, C.** The Tachrift Project: combining field mapping and detailed stratigraphic measurements to reconstruct the sedimentary architecture of channel-levee systems (late Tortonian, Tachrift Turbidite System, NE Morocco). Abstracts of SGI-SOCIETÀ GEOLOGICA ITALIANA CONGRESS. Turin-IT. **2022**

Felletti, F., **Zuffetti, C.**, Marini, M. The channel-levee transition: insights from the Tachrift Turbidite System (Complex 6, Taza-Guercif Basin, NE Morocco). Turbidite Research Group Autumn 2022 Sponsors Meeting. Ainsa-ES. **2022**

Invernizzi, D., Felletti, F., Marini, M., Pantopoulos, G., **Zuffetti, C.**, Elkati, I. Progress update on the work in progress and forthcoming field season (Complex 7, Taza-Guercif Basin, NE Morocco). Turbidite Research Group Autumn 2022 Sponsors Meeting. Ainsa-ES. **2022**

**Zuffetti, C.**, Felletti, F., Marini, M., Reguzzi, S., Elkati, I. Abstracts of GEOSED-ITALIAN ASSOCIATION OF SEDIMENTOLOGISTS Meeting. Bari-IT. **2022**

Stevenazzi, S., **Zuffetti, C.**, Camera, C., Lucchelli, A., Beretta, G. P., Bersezio, R., Masetti, M. 3D model of alpine aquifers of Lombardy (Italy). Abstracts for FLOWPATH-NATIONAL MEETING ON HYDROGEOLOGY, p. 44. Conference Proceedings Book. Naples-IT. **2021**

**Zuffetti, C.** From field to 4D modelling: Space-Time geological model of the Quaternary syntectonic fill of a foreland basin (Po Basin). VI Giornata "Incontri di Geologia", GeoSed-Italian Association for Sedimentary Geology. Rome-IT. **2021**

Felletti, F., Marini, M., Elkati, I., Tabyaoui, H., Reguzzi, S., **Zuffetti, C.** The Tachrift channel-levee turbidite systems (Tortonian- Early Messinian) of the Taza-Guercif Basin (South Rifian Corridor, NE Morocco). Abstracts of the 35TH IAS-INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS MEETING. Prague-CZ. **2021**

Reguzzi, S., Marini, M., Felletti, F., Elkati, I., **Zuffetti, C.**, Bellin, N., Tabyaoui, H. The sedimentary architecture of a turbidite channel-levee complex from the Taza-Guercif Basin (Upper Miocene, NE Morocco). Abstracts of the 35TH IAS-INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS MEETING.



## Prague-CZ. 2021

Comunian, A., Consonni, E., **Zuffetti, C.**, Bersezio, R., Giudici, M. Handling non-stationarity in multiple-point statistic simulation with a hierarchical approach. Abstracts of the 13<sup>TH</sup> GEOENV - INTERNATIONAL CONFERENCE ON GEOSTATISTICS FOR ENVIRONMENTAL APPLICATIONS. 2021

**Zuffetti, C.** Bersezio, R. Active thrusting and glacial controls recorded by stratigraphic unconformities in a Quaternary foreland basin (Po basin, Northern Italy). EGU General Assembly 2021, online (EGU21-9250). <https://doi.org/10.5194/egusphere-egu21-9250>, 2021

**Zuffetti, C.**, Bersezio, R. The response of periglacial landscape to Late Pleistocene active thrusting: evidence at the Po Basin-Northern Apennines hinge (Lombardy, Italy). Geophysical Research Abstracts (EGU2020-15856). EGU-EUROPEAN GEOSCIENCES UNION. 2020

**Zuffetti, C.**, Bersezio, R. Late Quaternary sedimentation and tectonics in the Po Basin: field evidences at the Po Plain-Apennines border (Lombardy). In B. Carmina, F.M. Petti, G. et al. (Eds). Abstracts of SGI-SOCIETÀ GEOLOGICA ITALIANA CONGRESS (p. 500). Parma-IT. 2019

Mele, M., **Zuffetti, C.**, Aliverti Piuri, E., Bersezio, R., Giudici, M., Comunian, A., Contini, D. Geophysical imaging of a buried faulted anticline: The San Colombano hill, southern Po Plain of Lombardy (Northern Italy). In B. Carmina, F.M. Petti, G. et al. (Eds). Abstracts of SGI-SOCIETÀ GEOLOGICA ITALIANA CONGRESS (p. 488). Parma-IT. 2019

**Zuffetti, C.**, Bersezio, R. Effects of Late Pleistocene synsedimentary tectonics on alluvial architecture at the Po Plain-Apennines border (N-Italy). Abstracts of the 34<sup>TH</sup> IAS-INTERNATIONAL ASSOCIATION OF SEDIMENTOLOGISTS MEETING, Session 5.E-372. Rome-IT. 2019

**Zuffetti, C.**, Bersezio, R. Deciphering palimpsest landscapes to constrain 3D(4D) geological models: an example from the Po Plain-Apennines border (N Italy). Abstracts of 20<sup>TH</sup> INQUA-INTERNATIONAL QUATERNARY CONGRESS. Dublin-IRE. 2019

**Zuffetti, C.**, Bersezio, R., Comunian, A. Modelling complex tectono-sedimentary architectures at the southern margin of the Quaternary Po Basin (Italy). Abstracts of the 14<sup>TH</sup> GIT-GEOINFORMATICS AND INFORMATION TECHNOLOGIES CONGRESS. Melfi-IT. 2019

**Zuffetti, C.**, Bersezio, R., Comunian, A., Cavalli, E., Renard, P. Geological constraints to model complex hydrostratigraphy: case studies from the Quaternary Po Hydrogeological Basin (Northern Italy). Abstracts of the 4<sup>TH</sup> EUROPEAN MEETING ON 3D GEOLOGICAL MODELLING (P.83). BRGM. Orléans-FRA. 2018

**Zuffetti, C.**, Bersezio, R., Contini, D., Petrizzo, M. R., Trombino, L. Quaternary evolution of the Central Po Plain: surface constraints from the San Colombano relief (Lombardy, Italy). JOURNAL OF MEDITERRANEAN EARTH SCIENCES, 9, p. 209. 2017

**Zuffetti, C.**, Bersezio, R., Cavalli, E. Aquifer-building processes. Unravelling allogenic controls to constrain 3D models of the Quaternary alluvial architecture in the Central Po Plain (Italy). In S. Hubbard, P. Durkin et al. (Eds). Abstracts of ICFS-INTERNATIONAL CONGRESS ON FLUVIAL SEDIMENTOLOGY (pp. 127-128). Calgary-CAD. 2017

**Zuffetti, C.** Quaternary hydrostratigraphy in the Po Plain: multiscale geology and forward modelling. Abstracts of the PHD CONGRESS 2017 (p.21). CHYN, Neuchatel-CH. 2017

Bersezio, R., **Zuffetti, C.**, Cavalli, E., Baio, M., Cantone, M., Inzoli, S., Pavia, F., Rigato, V., Rusnighi, Y., Rodondi, C., Sozzi, S. The Quaternary N-Apennine tectonics recorded in the Po Basin: stratigraphic and geomorphological evidences along a N-S traverse in Lombardy (Italy). Geophysical Research Abstracts, 18 (EGU2016-9228). EGU-EUROPEAN GEOSCIENCES UNION. Wien-A. 2016





## OTHER INFORMATION

### TEACHING and ACADEMIC ACTIVITY

#### Feb 2019-Feb 2023 - **Adjunct Professor**

Università degli Studi di Milano, [Dipartimento di Scienze e Politiche Ambientali](#) - Milano

Course FUNDAMENTALS OF EARTH SCIENCES, BSc in Environmental Sciences and Policy. 32 hours (Years 2020-2022), 80 hours (Year 2019)

Activity: Lectures and practical classes; internship/Thesis supervision; final exams preparation

Major topics: Cartography, Earth systems and dynamics, Geomorphology, Minerals and Rocks

Jul 2018 - **Lecturer Assistant** (Integrated didactic activity under art. 45 of the General University Regulation)

Università degli Studi di Milano, [Dipartimento di Scienze della Terra](#) - Milano

Practical session of the course INTRODUCTORY GEOLOGY AND LABORATORY (7 ECTS, Coordinator: Prof. E. Erba), BSc in Geological Sciences. 18 hours

Major topics: Cartography, topographic map reading, cross-sections set-up

Oct 2017 - **Field Assistant** (Integrated didactic activity under art. 45 of the General University Regulation)

Università degli Studi di Milano, [Dipartimento di Scienze della Terra](#) - Milano

Field trip at Courmayeur, Alps, of the course 'INTRODUCTORY GEOLOGY AND LABORATORY (7 ECTS, Coordinator: Prof. E. Erba), BSc in Geological Sciences. 20 hours

Major topics: Cartography; basics of Geomorphology, Lithology, Stratigraphy, Structural geology

### TUTORING and THESIS SUPERVISION

2015-present - **Advisor of 2 BSc Theses and 2BSc Stages** in Environmental Sciences and Politics; **Co-advisor** of 9 BSc Theses in Geological Sciences, 3 MSc Thesis in Earth Sciences, and Member of the related Degree Boards; **Co-examiner** of 3 MSc Thesis in Earth Sciences.

Major topics: Surface geology and Geomorphology of the Po Plain-IT; evidence of Quaternary Apennine tectonic on Alpine-sourced alluvial systems; relationship between climate and tectonics on stratigraphic architecture; GIS-based Geo-Database management; Quaternary geology and morphotectonics in Northern Apennines; Quaternary geology, palaeo-basin architecture and morphotectonics in the Southern Alps; 3D geo-models; soil erosion estimate; landscape evolution

2016-2023 - **Exam Committee Member** of the courses:

FUNDAMENTALS OF EARTH SCIENCES (9 ECTS; Coordinators: M. Gasparrini, C. Zuffetti), BSc in Environmental Sciences and Policy

HYDROSTRATIGRAPHY, AQUIFER SEDIMENTOLOGY AND PRACTICAL (9 ECTS; Coordinator: Prof. R. Bersezio), MSc in Earth Sciences

SEDIMENTOLOGY AND CULTURAL HERITAGE (6 ECTS; Coordinator: Prof. R. Bersezio), MSc in Cultural Heritage Conservation Science

2016-2018 - **Field tutor** in the course 'FIELD GEOLOGY' (Coordinators: Prof. R. Bersezio, Prof. P.

Tartarotti), BSc in Geological Sciences

2015-2018 - **PhD Students Representative**

### EDITORIAL BOARD and PEER-REVIEW ACTIVITY

**Guest Editor** for the Italian Journal of Geosciences IJG - Special Issue "Field Mapping and Stratigraphy: significant insights from the geologic record"

**Reviewer** for Sedimentology, Palaeo3, Rendiconti Online della Società Geologica Italiana, Italian Journal of Geosciences

### Technical skills

Full knowledge of MS Windows platform and MacOS; Proficient command on Adobe Suite (Illustrator, Photoshop, Acrobat); Good command on multimedia systems. Advanced knowledge in GIS (ESRI ArcGIS®).



QGIS) and its interface with mobile devices used on field surveys and geo-DB administration. Proficient user of GeoModeller® (Intrepid Geophysics) for 3D stratigraphic and structural elaborations, from primary geological observations and evolutionary interpretations

## Communication skills

Good communication skills gained through my experience as: (i) teaching collaborator at University and in other contexts (e.g. High and Primary Schools); (ii) researcher (e.g. presentation at conferences and informal scientific dissemination); (iii) educator and volunteer in different Countries (communication in very heterogeneous and culturally variable teams; see the section VOLUNTARY WORKS for details)

## THIRD MISSION

- Invited lecturer for a public seminar on the geological evolution of the Po Plain in Lodi-IT (02/2023)
- Invited lecturer for the seminar [Formazione Circolare 2022](#) on soil loss in the Po Plain for primary and secondary school Teachers. Part of the project CARIPLO, NGO *Movimento Lotta Fame nel Mondo* (11/2022)
- Screenwriter for the [video “Energy Resources”](#) promoting activities of “Prode - Departments of Excellence”, of the Dipartimento di Scienze della Terra - Università degli Studi di Milano-IT (2022)
- Co-founder and member of the cultural organization [Terra in vi\(s\)ta](#), promoting dissemination of Earth Sciences through any form of art at *Dipartimento di Scienze della Terra - Università degli Studi di Milano* in Milano-IT (2019-present)
- Invited lecturer for the seminar [Incontri con le Scienze 2021](#) on Natural Hazards at the high school *Liceo Giovio* in Como-IT (2021)
- Invited lecturer to Earth Sciences classes at High Schools: *IIS P. Calamandrei* in Codogno-IT (2020) and *Liceo Scientifico G. Gandini* in Lodi-IT (2017); Primary schools in Lodi (2021-2023)
- Organizer of geological photo contests at the University of Milan. Dipartimento di Scienze della Terra (2016-2019)
- Cooperator at the European Scientific Events [Meet-me-tonight](#) in Milan-IT (2015-2019)
- Invited lecturer to public seminars on the hydrocarbon resources of Italy, in preparation for the Italian Referendum on oil and natural gas drilling - Lodi-IT (2016)
- Co-organizer of Open-Days for high-school students, Università degli Studi di Milano-IT (2015-2016)
- University curriculum counsellor for high school students in Lodi-IT (2014-2016)

## VOLUNTARY WORK

- Educator and National Cooperator with [Italian Scout Federation](#) (2010-present: Scout team leader of groups of people between 8-21 years old; National trainer of scout educators), [Geologia Senza Frontiere](#), [Red Cross](#), volunteer in study aid to troubled young people in Lodi-Italy
- International Cooperator in projects aimed at the development of rural areas, local resources and education in Bihać (BOSNIA; 07/2017) with the NGO *Terre e Libertà-IPSA*; Puka district (ALBANIA; 2008-2017) with *Miredita* organization; Karuzi province (BURUNDI; 02/2014) with *VISPE Onlus*; Jambiani (TANZANIA; 08/2009) with the NGO *Movimento Lotta contro la Fame nel Mondo-MLFM*

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Milano, 23/10/2023