



Riccardo Brunetta

Date of birth: 19/01/1994 | **Nationality:** Italian | **Phone number:** (+39) 3279589009 (Mobile) |

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Address: Via Saragat, 1, 44122, Ferrara, Italy (Work)

WORK EXPERIENCE

POST-DOC POSITION COSTUF TEAM – UNIVERSITY OF FERRARA - DEPARTMENT OF PHYSIC AND EARTH SCIENCES – 01/01/2023 – Current – FERRARA

Scientific field: GEO 0/4

Research subject: "Study of geomorphological impact of coastal storms on transitional environments (dunes and lagoons) through remote sensing dataset"

Research supervisor: Prof. Paolo Ciavola, from the Department of Physics and Earth Sciences of the University of Ferrara.

ELABORATION AND ANALYSIS TO IMPROVE THE KNOWLEDGE OF COASTAL RISK AND TO SUPPORT THE EARLY WARNING SYSTEM FOR STORM EVENTS - AGSS-CFR COLLABORATION – PROF. CLARA ARMAROLI - UNIVERSITY OF BOLOGNA – 01/10/2024 – Current – BOLOGNA, ITALY

Collaboration between the Consorzio Futuro in Ricerca (CFR) and Agenzia Geologia, Suoli e Sismica (AGSS) of the Emilia-Romagna Region (Italy) focused on i) updating the current storm event thresholds and impacts along the Emilia-Romagna coastline; ii) the classification of the regional coastal systems, identifying homogeneous areas and defining representative profiles, and iii) modeling of storm impacts based on the new thresholds and representative profiles (CIG B2BB23473C).

Supervisor: Prof. Clara Armaroli, Department of Biological, Geological and Environmental Sciences.

STRENGTH PROJECT - INTERREG ITALY - CROATIA – 01/2025 – Current – FERRARA, ITALY

STRategies for assessing climate change and natural hazards' impact on urban ecosystems, increasing resilience to ENVironmental hazards, and promoting territorial GrowTH (STRENGTH - ITHR0200318).

Promoting climate change adaptation and disaster risk prevention, resilience, taking into account eco-system based approaches.

WorkPackage 2.1 - Flood hazard assessment caused by coastal and flash flooding based on hydrological and hydraulic modeling: A detailed altimetry will be created using the regional LIDAR surveys available from the RER. For marine flooding, a number of scenarios will be built using the LISFLOOD hydraulic model calibrated against flood observations available from the InStorm Database and the DB of ECFAS project.

Research supervisor: Prof. Paolo Ciavola, from the Department of Physics and Earth Sciences of the University of Ferrara.

FIELDTRIP ORGANIZER AND GUIDE – UNIVERSITY OF FERRARA - DEPARTMENT OF PHYSIC AND EARTH SCIENCES – 19/06/2025 – COMACCHIO (FE), ITALY

Fieldtrip organizer and guide during the scientific fieldtrip of the 10th International Meeting on Taphonomy and Fossilization, Taphos 2025, which was held in Comacchio (Ferrara, Italy) from June 17 to 19, 2025.

Organizer: Prof. Davide Bassi

OVERSEE PROJECT "GLOBAL ECV MULTISENSOR MAPPING FOR COASTAL ECOSYSTEM SERVICES PROTECTION" – 01/2024 – 12/2024 – FERRARA, ITALY

The project aims to promote the use of the available data from the hyperspectral PRISMA satellite sensor and to integrate the hyperspectral bands with other source of information in synergy with ASI, ESA and NASA satellites missions' products. The research focuses its activities and pilot actions on a targeted set of nationally and internationally recognised protected areas focusing on coastal ecosystems and providing indicators based on multitemporal data extracted from satellite multispectral (Sentinel2, Landsat, Spot), hyperspectral (PRISMA) and SAR (CSKM, Sentinel) sensors.

Co-supervising fieldwork activities, and data manager for the node 7000 UNIFE: SHORELINE MAPPING (WP7101 - SHORELINE EXTRACTION ALGORITHMS and WP7102: DUNE LAND COVER AND SHORELINE POSITION).

Research supervisor: Prof. Paolo Ciavola, from the Department of Physics and Earth Sciences of the University of Ferrara.

"MARE" ADBPO PROJECT - METHODOLOGICAL PROTOCOL FOR SEDIMENT RIVER MONITORING IN FLAT PLAINS – AUTORITÀ DI BACINO DISTRETTUALE DEL FIUME PO (ADBPO) – 09/2023 – 12/2023 – ITALY

Technical-Scientific Report (Activity 3.4 - "Mare" project: "Autorità di Bacino Distrettuale del Fiume Po Approfondimento Tecnico-Scientifico sui Quadri Conoscitivi in Ambito Costiero") focused on defining the methodology for sediment monitoring in riverine systems of "Pianura Padana" in Italy, including procedures, tools, and costs.

OCCASIONAL EMPLOYMENT – CONSORZIO FUTURO IN RICERCA (CFR) – 06/10/2022 – 31/10/2022 – FERRARA, ITALY

Calibration and testing of the marine drone CK-14 for bathimetric surveys for the project "Surveying and updating the coastal morphological chart, in particular for the coastal dune systems" - CIG ZAC2F5B255;
Scientific Supervisor: Prof. Paolo Ciavola, from the Department of Physics and Earth Sciences of the University of Ferrara.

STUDY GRANT – UNIVERSITY OF FERRARA – 01/04/2022 – 31/07/2022 – FERRARA, ITALY

Winner of the study grant of the University of Ferrara: "Evaluation of river and coastal floods impact in the Po Delta system".
Supervisor: Prof. Paolo Ciavola.

STUDY PERIOD AND COLLABORATION WITH THE SAINT MARY'S UNIVERSITY (HALIFAX, CANADA) – SAINT MARY'S UNIVERSITY (HALIFAX, CA) – 05/07/2021 – 09/10/2021 – HALIFAX, CANADA

Study period and a collaboration of 3 months (06/07/2021-10/10/2021) with the research team of the Department of Geography and Environmental Sciences of the Saint Mary's University (Halifax, Canada).
Supervisor: Prof. Danika van Proosdj.

Main objectives:

- Fieldwork: sediment traps, RTK-GPS, UAV surveys, hydrodynamic measurements.
- Data processing: sediment deposition calculation, Coulter Multisizer, Gradistat, Drawers.

IV INTERNATIONAL SUMMER SCHOOL ON DYNAMICS OF ESTUARINE AND NEARSHORE SYSTEMS (GRANADA, SPAIN) – WORKSHOP – 11/06/2019 – 21/06/2019 – GRANADA, SPAIN

Website: gdfa.ugr.es/summerschool19/

Summer School organized in Granada (Spain) on Dynamics of Estuarine and Nearshore Systems focused on the comprehension of fundamental concepts and advanced applications of modern knowledge regarding these systems.
Supervisors: Huib E. de Swart & Manuel Dièz-Minguito

STUDY PERIOD IN THE UNIVERSITY OF CADIZ (CADIZ, SPAIN) – UNIVERSIDAD DE CADIZ (CADIZ, ES) – 07/10/2019 – 07/11/2019 – CADIZ, SPAIN

Study period of 1 month in the Universidad de Cadiz (UCA) for the improvement of the knowledge regarding salt marshes and PhD research.
Supervisor: Prof. Gloria Peralta

ERASMUS+ (EUROPEAN UNION PROGRAM) – HD UNIVERSITY OF APPLIED SCIENCES – 02/2017 – 07/2017 – VLISSINGEN, NETHERLANDS

Internship and research of 5 months in the HZ University of Applied Sciences (Vlissingen, The Netherlands) for the thesis of the master degree in "Geological, Georesources, and Territorial Sciences" of the University of Ferrara (academic years 2017/2018).
Supervisor: Dott. Joao Salvador De Paiva.

● **EDUCATION AND TRAINING**

01/10/2018 – 30/06/2022 Ferrara, Italy

PHD IUSS FERRARA 1391 IN EARTH AND MARINE SCIENCES (EMAS) (DOUBLE TITLE WITH THE UNIVERSITY OF CADIZ, SPAIN)
University of Ferrara

PhD cycle: 34°

Supervisor: Prof. Paolo Ciavola

Age of PhD achievement: 28 | Official period of the PhD: 3 years

Final title: double title PhD from the Università degli Studi di Ferrara and Universidad de Cadiz (Spain).

Date of the defence: 30/06/2022

Main topics:

- Geomorphology and sedimentology;
- Study of coastal wetlands (tidal flats, salt marshes, lagoons).

Skills developed (pre- and post-doc):

- ArcGIS and Qgis user;
- DEM and Orthophoto data process, validation and interpretation;
- Metashape user (Structure from Motion);
- Sediment deposition;
- Vertical changes and sediment budget estimation (Geomorphic Change Detection, Dem of Difference);
- Sediment sampling and processing in lab;
- Building-with-Nature approach;
- Moving in muddy environments;
- Shoreline analyses (DSAS);
- Orthophotos historical interpretation.

Tools used on-field:

- Trimble GPS-RTK;
- UAV user (DJI Phantom 3+) - ENAC UAV A1/A3 Driving License;
- Laser Scanner user (Leica P30);
- Tide gauge user (DLN70);
- Surface cores and sediment traps;
- Wet sieving and granulometric analyses (Coulter Counter);
- Sampler Depth Integrating (DH-76);
- Bedload sampler (Helley-Smith);
- Marine drone with Echosounder single beam (CK-14 + Sonarmite);
- ADCP.

Address Via Saragat, 1, 44100, Ferrara, Italy | **Website** [https:// www.unife.it/studenti/dottorato/it/corsi/riforma/terra](https://www.unife.it/studenti/dottorato/it/corsi/riforma/terra) |

Field of study Coastal Geomorphology (GEOS-03/A) | **Final grade** cum laude | **Level in EQF** EQF level 8 |

Thesis Evolution of restoration projects of coastal wetlands: from tidal flat to salt marsh

2015 – 2018 Ferrara, Italy

MASTER DEGREE IN GEOLOGICAL, GEORESOURCES, AND TERRITORIAL SCIENCES University of Ferrara

Subject: Coastal Risks

Supervisor: Prof. Paolo Ciavola

Key words: Sedimentology, Salt Marsh, Tidal Flat, The Netherlands

Date of the defence: 20/07/2018

Address Via Saragat, 1, 44100, Ferrara, Italy | **Field of study** LM-74 - Master degree in Geological, Georesources, and Territorial Sciences |

Final grade 110/110 cum laude | **Level in EQF** EQF level 7 |

Thesis Salt marsh formation and sediment dynamics in the Perkpolder tidal basin, SW Netherlands (NL)

2011 – 2015 Ferrara, Italy

BACHELOR DEGREE IN GEOLOGICAL SCIENCES University of Ferrara

Subject: Laboratory of Stratigraphy

Supervisor: Prof. Michele Morsilli

Key words: Calcareni Porto Badisco, Oligocene, Salento

Date of the defence: 22/12/2015

Address Via Saragat, 1, 44100, Ferrara, Italy | **Field of study** L-34 - Bachelor in Geological Sciences | **Final grade** 109/110 |

Level in EQF EQF level 6 |

Thesis Architettura di facies delle Calcareni di Porto Badisco (Oligocene superiore) nell'area di Torre S. Emiliano (Salento Puglia)

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
SPANISH	B1	B1	B1	B1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

2026

Morphological instability in restored intertidal flats: How anthropogenic structures drive early-stage evolution

Brunetta, R., Crowell, S. Ellioth, M., van Proodsij, D., & Ciavola, P. (2026). Morphological instability in restored intertidal flats: How anthropogenic structures drive early-stage evolution, *Earth Surface Processes and Landforms*, 51(3), doi.org/10.1002/esp.70260

Authors: Brunetta, R., Crowell, S. Ellioth, M., van Proodsij, D., & Ciavola, P. | **Journal Name:** Earth Surface Processes and Landforms | **Publisher:** Wiley

2025

Influence of Posidonia oceanica accumulation on beach morphodynamics: A remote sensing study

Terracciano, S., Montes, J., Brunetta, R., Cabrita, P., Ciavola, P., & Armaroli, C. (2026). Influence of Posidonia oceanica accumulation on beach morphodynamics: A remote sensing study. *Coastal Engineering* 205, 104933. doi.org/10.1016/j.coastaleng.2025.104933

Authors: Terracciano, S., Montes, J., Brunetta, R., Cabrita, P., Ciavola, P., & Armaroli, C. | **Journal Name:** Coastal Engineering | **Volume, Issue and Pages:** 205, 104933 | **Publisher:** Elsevier

2025

An Airborne Lidar-Based 15-Year Study of Dune Reconstruction and Overwash Formation in a Microtidal and Fetch Limited Environment

Armaroli, C., Brunetta, R., & Ciavola, P. (2025). An Airborne Lidar-Based 15-Year Study of Dune Reconstruction and Overwash Formation in a Microtidal and Fetch Limited Environment. *Remote Sensing*, 17(6), 1072. doi.org/10.3390/rs17061072

Authors: Armaroli, C., Brunetta, R., & Ciavola, P. | **Journal Name:** Remote Sensing | **Volume, Issue and Pages:** 17(6), 1072 | **Publisher:** MDPI

2025

Sedimentary and geomorphological evolution of a young tidal flat in the northern part of the Po delta (Italy)

Brunetta, R., Duo, E., & Ciavola, P. (2025). Sedimentary and geomorphological evolution of a young tidal flat in the northern part of the Po delta (Italy), *Estuarine, Coastal and Shelf Science*, 312, 109019, doi.org/10.1016/j.ecss.2024.109019.

Authors: Brunetta, R., Duo, E., & Ciavola, P. | **Journal Name:** Estuarine, Coastal and Shelf Science | **Volume, Issue and Pages:** 312, 109019 | **Publisher:** Elsevier

2024

Evolution of wetlands in the northern part of the Po Delta: The experience of unmanaged realignments

Brunetta, R. & Ciavola, P. (2024). Evolution of wetlands in the northern part of the Po Delta: The experience of unmanaged realignments. *Earth Surface Processes and Landforms*, 1–24. doi.org/10.1002/esp.5936

Authors: Brunetta, R. & Ciavola, P. | **Journal Name:** Earth Surface Processes and Landforms | **Volume, Issue and Pages:** 1–24 | **Publisher:** Wiley

2024

The Role of Different Total Water Level Definitions in Coastal Flood Modelling on a Low-Elevation Dune System

Cabrita, P., Montes, J., Duo, E., Brunetta, R., & Ciavola, P. (2024). The Role of Different Total Water Level Definitions in Coastal Flood Modelling on a Low-Elevation Dune System. *Journal of Marine Science and Engineering*, 12, 1003. doi.org/10.3390/jmse12061003

Authors: Cabrita, P., Montes, J., Duo, E., Brunetta, R., & Ciavola, P. | **Journal Name:** Journal of Marine Science and Engineering | **Volume, Issue and Pages:** 12, 1003 | **Publisher:** MDPI

2021

Evaluating Short-Term Tidal Flat Evolution Through UAV Surveys: A Case Study in the Po Delta (Italy)

Brunetta, R., Duo, E., & Ciavola, P. (2021). Evaluating Short-Term Tidal Flat Evolution Through UAV Surveys: A Case Study in the Po Delta (Italy). *Remote Sensing*, 13, 2322. doi.org/10.3390/rs13122322

Authors: Brunetta, R., Duo, E., & Ciavola, P. | **Journal Name:** Remote Sensing | **Volume, Issue and Pages:** 13, 2322 | **Publisher:** MDPI

2019

Morphological Evolution of an Intertidal Area Following a Set-Back Scheme: A Case Study From the Perkpolder Basin

Brunetta, R., de Paiva, J. S., & Ciavola, P. (2019). Morphological Evolution of an Intertidal Area Following a Set-Back Scheme: A Case Study From the Perkpolder Basin (Netherlands). *Frontiers in Earth Sciences*, 7, 228. doi.org/10.3389/feart.2019.00228

Authors: Brunetta, R., de Paiva, J. S., & Ciavola, P. | **Journal Name:** Frontiers in Earth Sciences | **Volume, Issue and Pages:** 7, 228 | **Publisher:** Frontiers

CONFERENCES AND SEMINARS

10/10/2025 – 11/10/2025 Florence (Italy)

VIII Convegno Nazionale AiGeo

Annual congress: VIII AiGEO Congress of Applied and Environmental Geomorphology held in Florence (Italy).

Role: Co-Author of the study "Evaluating the Role of Posidonia oceanica Deposits in Coastal Morphodynamics through Remote Sensing Approaches"

Organized by: AiGEO

14/06/2024 – 16/06/2024 Salve (LE, Italy)

I Paesaggi e Beni Geologici, Patrimonio Culturale e Patrimonio Immateriale

National Italian congress focused on the protection of geological heritage, geological landscapes, and geodiversity for proper land management, respecting the environment, the economic system, and the well-being of local populations.

Organized by: SIGEA (Società Italiana di Geologia ASmbientale) - Ordine dei Geologi della Puglia

Role: Oral presentation of "The evolution of wetlands of the Po Delta: the experience of unmanaged restoration", for the paper published on ESPL (doi.org/10.1002/esp.5936).

11/06/2024 – 13/06/2024 Livorno (Italy)

International Symposium Monitoring of Mediterranean Coastal Areas: Problems and Measurement Techniques

International Congress Volume (*Tenth International Symposium Monitoring of Mediterranean Coastal Areas: Problems and Measurement Techniques*)

Role: Co-author of the study "One-Year Evolution of a Mediterranean Sandy Beach with Posidonia oceanica Banquettes (Arborea, Sardinia, Italy)"

DOI: <https://dx.doi.org/10.36253/979-12-215-0556-6.58>

04/2023 Wien, Austria

Coastal flood pathways driven by extreme storm surge and dike failure in the Northern Adriatic

Annual event of the EGU General Assembly

Organized by: Copernicus.org

Role: Co-Author of: "Coastal flood pathways driven by extreme storm surge and dike failure in the Northern Adriatic"

DOI: 10.5194/egusphere-egu23-806

16/03/2023 Ferrara

Accademia delle Scienze di Ferrara: Evoluzione del sapere sulla geomorfologia del territorio del Delta del Po: 50 anni di conoscenze

National Italian Congress (Ferrara, Italy) focused on the Po Delta, its history and evolution from its first appearance to nowadays. A tribute to Marco Bondesan.

Organized by: Accademia delle Scienze di Ferrara

Speakers: Prof. Paolo Ciavola, Dr. Riccardo Brunetta.

23/06/2022 – 24/06/2022 Capri (Italy)

La sostenibilità delle isole minori e del turismo nelle aree costiere italiane

International conference in Capri (Italy) focused on the sustainability of the minor islands and tourism of the Italian coastal areas.

Organized by: Legambiente, Osservatorio Paesaggi Costieri Italiani, Isole Sostenibili.

Role: Oral presentation: "Evoluzione morfologica di piane tidali artificiali nell'ottica di un supporto alla ricostruzione delle zone umide".

Link <https://www.paesaggicostieri.org/>

28/04/2022 – 29/04/2022 Lecce (Italy)

XVI Workshop Annuale GNRAC

Annual workshop of the GNRAC focused on the impacts of anthropic activities on coastal territories.

Organized by: Gruppo Nazionale per la Ricerca sull'Ambiente Costiero (GNRAC).

Role: Oral presentation of the PhD thesis: "Evolution of restoration projects of coastal wetlands: from tidal flat to salt marsh".

Link <http://www.gnrac.it/>

13/09/2021 Virtual due to Covid19

90° Congresso della Società Geologica Italiana "Geology without borders"

International congress on Earth Science (virtual due to Covid19).

Organized by: Società Geologica Italiana (SGI).

Role: Poster presentation about the PhD results: "Sedimentary evolution of a young tidal flat in the Northern Part of the Po Delta (Italy): A Strategy for Future Building with Nature Management".

Link www.geoscienze.org/trieste2021/

28/06/2021 Virtual due to Covid19

9th World Conference on Ecological Restoration (SER2021)

SER2021 is the leading global conference on ecological restoration.

Organized by: Society for Ecological Restoration (SER).

Role: Oral presentation about the PhD results: "Evolution of Tidal Flats in the Northern Part of The Po Delta (Italy): a Strategy for Future Building-with-Nature Management".

Link www.ser2021.org/

27/04/2021 Virtual due to Covid19

European Geoscience Union (vEGU) 2021

Annual event of the EGU General Assembly that brings together geoscientists from all over the world into one meeting covering all disciplines of the Earth, planetary and space sciences (Online due to Covid19).

Organized by: Copernicus.org

Role: Oral presentation (PICO): "Evolution of Tidal Flats in the Northern Part of the Po Delta (Italy): A Strategy for Future Building-with-Nature Management".

Link <https://www.egu21.eu/www.egu21.eu/>

27/01/2021 Virtual due to Covid19

Convegno nazionale di studi costieri XI

National Italian congress focused on: sediment management from basins to coasts, ecology and biology, climate changes, environmental marine dynamics and monitoring, littoral management, dynamics and defence, experimental modelling, port facilities, marine state property, and normative aspects.

Organized by: Gruppo Nazionale per la Ricerca sull'Ambiente Costiero (GNRAC); president Lorenzo Cappiotti (University of Firenze).

Role: Oral presentation of the PhD results: "Evoluzione delle piane tidali a nord del delta del Po: una futura gestione Building-With-Nature".

Link www.gnrac.it/G3/G3.htm

22/01/2020 Venice (Italy)

Eurolag 2020

International conference Eurolag9 organized in Venice focused on coastal lagoons and wetland environments.

Organized by: ISMAR, CORILA, University of Venezia

Role: Oral presentation of the PhD results "Evolution of tidal flats in the Northern part of the Po Delta".

Link www.eurolag9.it/

06/04/2019 Wien (Austria)

European Geoscience Union (EGU) 2019 (Wien, Austria)

The EGU General Assembly is a prominent annual event that brings together geoscientists from all over the world into one meeting covering all disciplines of the Earth, planetary and space sciences.

Organized by: Copernicus.org

Role: Poster presentation of the published paper: "Morphological Evolution of an Intertidal Area Following a Set-Back Scheme".

Link www.egu2019.eu/

HONOURS AND AWARDS

05/04/2025

Nomination for USERN Prize 2025 – USERN (Universal Scientific Education & Research Network)

Nomination to apply for the Universal Scientific Education and Research Network (USERN) Prize 2025, on behalf of Professor Tommaso Dorigo, USERN President, and Professor Nima Rezaei, USERN Founder, based on the scientific profile and the publications as first author or corresponding author in top-ranking (Q1) journals in the field of study over the past two years.

Link <https://usern.org/>

17/09/2024

Award AIGeo "Giovanni Battista Castiglioni" 2024 Edition – AIGEO (Associazione Italiana di Geografia fisica e Geomorfologia)

Award for the best PhD thesis in the field of geomorphology discussed in the 2022-2023 biennium. The evaluation of the Commission composed of the AIGeo members Prof. Fabio Scarciglia (President), Prof. Pietro Aucelli, Prof. Marta Della Seta:

"The PhD thesis addressed topics of high scientific interest and demonstrated excellent originality in the results achieved, in the approach, and in the methodological rigor, along with a well-organized text, clarity of exposition, and quality and intelligibility of the iconographic sections.

The work represents an excellent contribution to the advancement of Physical Geography and Geomorphology and honor the memory of Prof. Giovanni Battista Castiglioni."

22/01/2020

Eurolag9 (2020) - Eurolag9 Murray Foundation Grant

Grant for the participation to the Eurolag9 congress (Venice).

06/04/2019

EGU2019 - EGU Early Career Scientist's Travel Support – EGU (European Geosciences Union)

Travel grant for the EGU 2019 General Assembly (Wien).

06/2018

Diploma Ferrara School of Earth Sciences – University of Ferrara

Certification that is given to the students who achieve the master degree following an excellent academic path with a strong international connotation and that master at least one foreign language at high level.

Master degree in Geological, georesources, and territorial Sciences:

- Bachelor degree higher than 100/110;
- Average grade of the exams higher than 27/30;
- 30 credits obtained through exams in English or international mobility;
- knowledge of the English language or another foreign language at least B2, or equivalent;
- master thesis in english or another foreign language about international temathics with evaluation and revision of a foreign supervisor;
- degree obtained within one year after the end of the master courses.

TEACHING EXPERIENCE

27/02/2023 – 07/06/2023

Contract for "Fluvial Dynamics", Master Degree course LM-74 (6 CFU) GEO/04

University of Ferrara, Italy - Department of Physic and Earth Sciences

Yearly teaching contract for the course of "Fluvial Dynamics" of the master degree LM-74 in "Geological, Georesources, and Territorial Sciences" of the academic year 2022/2023 (48 hours).

2018 – 2025

Thesis (BS, MS and PhD courses) Co-Supervisor

Co-Supervisor for the EMAS PhD Course:

PhD Student: Paulo Sergio Augustino Cabrita

PhD course: EMAS (Earth and Marine Sciences)

Academic period: 2021/22 - 2024/25

Thesis: Predictive Modelling and Coastal Storm Response: a Study of Urban and Natural Coastal System

Co-supervisor: Dr. Juan Montes Perez (University of Cadiz, Spain)

Supervisor: Prof. Paolo Ciavola

List of student followed as Co-Supervisor (BSc and MSc) from the most to the least recent:

2023 – 2024

Student: Sara Augusti

Master degree: Geological Sciences

Academic year: 2023/2024

Thesis: Evoluzione morfologica della piana tidale a sud della laguna di Barbamarco (Delta del Po, Italia) nel periodo 2020 - 2024

Supervisor: Prof. Paolo Ciavola

2022 – 2023

Student: Samantha Cavalieri D'oro

Master degree: Geological Sciences

Academic year: 2022/2023

Thesis: Valutazione dell'impatto da mareggiata e ingressione marina: evento del 22 novembre 2022 a Lido delle Nazioni (FE)

Co-supervisor: Dr. Stefano Fabbri

Supervisor: Prof. Paolo Ciavola

Student: Manuel Tavellin

Master degree: Civil and Environmental Engineering

Academic year: 2022/2023

Thesis: Test sulla performance di un fishfinder commerciale per lo svolgimento di rilievo batimetrici

Co-supervisor: Dr. Juan Montes Perez (University of Cadiz, Spain)

Supervisor: Prof. Paolo Ciavola

2019 – 2020

Student: Francesco Miricola
Master degree: Civil and Environmental Engineering
Academic year: 2019/2020
Thesis: Evoluzione morfologica della piana tidale a nord del delta del po: analisi dei prodotti UAV
Supervisor: Prof. Paolo Ciavola

2018 – 2019

Student: Enrico Ferrari
Bachelor degree: Geological Sciences
Academic year: 2018/2019
Thesis: Dinamica sedimentaria della piana tidale a nord del Po della Pila
Supervisor: Prof. Paolo Ciavola

2018 – 2025

Tutoring

List of Tutoring from the most to the least recent (149 hours in total):

- 09/2025 – 12/2025

University of Bologna, Italy - Department of Biological, Geological and Environmental Sciences
Lessons and laboratory of "GIS and Remote Sensing" (5 CFU) [cod. B4787] - [Modulo 1] for the course of "Geology for the Sustainable Development" (academic years 2025/2026).
Supervisor: Prof. Clara Armaroli.
Hours of service: 10

- 02/2025 – 06/2025

University of Bologna, Italy - Department of Biological, Geological and Environmental Sciences
Assistance and lessons of cartography of "Geomorphology" (7 CFU) [cod. 91448] - [Module 1] - for the course of "Natural Sciences" (academic years 2024/2025).
Supervisor: Dr. Clara Armaroli.
Hours of service: 20

- 02/2024 – 06/2024

University of Bologna, Italy - Department of Biological, Geological and Environmental Sciences
Assistance and lessons of cartography of "Geomorphology" (7 CFU) [cod. 91448] - [Module 1] - for the course of "Natural Sciences" (academic years 2023/2024).
Supervisor: Dr. Clara Armaroli.
Hours of service: 20

- 2019 – 2021

University of Ferrara - Department of Physics and Earth Sciences
Lessons and training of cartography for the course of "Physical Geography and Geomorphology" of the bachelor degree in "Geological Sciences" of the University of Ferrara (academic years 2020/2021).
Supervisor: Prof. Paolo Ciavola.
Hours of service: 12

- 2019 – 2021

University of Ferrara - Department of Physics and Earth Sciences
Laboratory of Rock Identification for the course "Elements of Geomorphology" of the bachelor degree in "Civil and Environmental Engineering" of the University of Ferrara (academic years 2020/2021).
Supervisor: Prof. Paolo Ciavola.
Hours of service: 20

- 2018 – 2020

University of Ferrara - Department of Physics and Earth Sciences
Assistance to lessons and excursions for the course of "Physical Geography and Geomorphology" of the bachelor degree in "Geological Sciences" of the University of Ferrara (academic years 2019/2020).
Supervisor: Prof. Paolo Ciavola.
Hours of service: 25

- 2018 – 2020

University of Ferrara - Department of Physics and Earth Sciences
Laboratory of Rock Identification for the course "Elements of Geomorphology" of the bachelor degree in "Civil and Environmental Engineering" of the University of Ferrara (academic years 2019/2020).
Supervisor: Prof. Paolo Ciavola.
Hours of service: 30

- 2016 – 2018

University of Ferrara - Department of Physics and Earth Sciences
Laboratory of Rock Identification for the course of "Geology 1" of the bachelor degree in "Geological Sciences" of the University of Ferrara (academic years 2017/2018).
Supervisor: Prof. Michele Morsilli.
Hours of service: 12

List of Teaching Support contracts from the most to the least recent (150 hours in total):

- 26/02/2025 – 07/06/2025

University of Ferrara - Department of Physic and Earth Sciences

Teaching support and lessons for the course of "River Dynamics" [130378] of the master degree in "Geological, Georesources, and Territorial Sciences" of the University of Ferrara (academic years 2025/2026).

Supervisor: Prof. Paolo Ciavola.

Hours of service: 30

- 26/02/2025 – 07/06/2025

University of Ferrara - Department of Physic and Earth Sciences

Lessons and training of cartography for the course of "Processi ed evoluzione del paesaggio terrestre" [76679] of the bachelor degree in "Geological Sciences" of the University of Ferrara (academic years 2024/2025).

Supervisor: Prof. Paolo Ciavola.

Hours of service: 30

- 26/02/2024 – 07/06/2024

University of Ferrara - Department of Physic and Earth Sciences

Lessons and training of cartography for the course of "Processi ed evoluzione del paesaggio terrestre" [76679] of the bachelor degree in "Geological Sciences" of the University of Ferrara (academic years 2023/2024).

Supervisor: Prof. Paolo Ciavola.

Hours of service: 30

- 2020 – 2022

University of Ferrara, Italy - Department of Physic and Earth Sciences

Teaching support for the course of "Application of GIS and remote sensing for the territorial cartography" of the master degree in "Geological, Georesources, and Territorial Sciences" of the University of Ferrara (academic years 2021/2022).

Supervisor: Prof. Paolo Ciavola.

Hours of services: 20

- 2019 – 2021

University of Ferrara - Department of Physic and Earth Sciences

Teaching support for the course of "Application of GIS and remote sensing for the territorial cartography" of the master degree in "Geological, Georesources, and Territorial Sciences" of the University of Ferrara (academic years 2020/2021).

Supervisor: Prof. Paolo Ciavola.

Hours of services: 20

- 2018 – 2020

University of Ferrara - Department of Physic and Earth Sciences

Teaching support for the course of "Application of GIS and remote sensing for the territorial cartography" of the master degree in "Geological, Georesources, and Territorial Sciences" of the University of Ferrara (academic years 2019/2020).

Supervisor: Prof. Paolo Ciavola.

Hours of services: 20

Educational Guidance

Lessons and laboratory for Educational Guidance to high school classes. Lessons listed from the most to the least recent (26 hours in total):

- 2025-2026

28/01/2026 and 20/03/2024 - Laboratory "RILIEVI MORFOLOGICI SULLA COSTA: Come si studiano le spiagge" (4 hours) Liceo Scientifico Statale "A. Roiti" – FERRARA

23/01/2026 and 20/03/2024 - Seminar "Messaggio del sistema di allerta: Allagamenti per l'Emilia-Romagna del 16 Maggio 2100: previsti allagamenti diffusi sul territorio ferrarese e ravennate. Realtà o finzione?" (2 hours) Liceo Scientifico Statale "A. Roiti" – FERRARA

- 2024-2025

13/02/2025 - Seminar "RESTAURO AMBIENTALE: AIUTIAMO LA NATURA A RIPARARSI" (2 hours) Liceo Scientifico Statale "A. Roiti" – FERRARA

11/02/2025, 18/02/2025, 20/02/2025 - Laboratory "RILIEVI MORFOLOGICI SULLA COSTA: Come si studiano le spiagge" (12 hours) Liceo Scientifico Statale "A. Roiti" – FERRARA

- 2023-2024

13/03/2024 and 20/03/2024 - Laboratory "RILIEVI MORFOLOGICI SULLA COSTA: Come si studiano le spiagge" (4 hours) Liceo Scientifico Statale "A. Roiti" – FERRARA

08/03/2024 - Seminar "RESTAURO AMBIENTALE: AIUTIAMO LA NATURA A RIPARARSI" (2 hours) Liceo Scientifico Statale "Carpeggiani" – FERRARA

REFERENCES

Prof. Paolo Ciavola

Dr. Paolo Ciavola is an full professor (GEOS-03/A) in Physical Geomorphology and Geomorphology of the Department of Physics and Earth Sciences at the University of Ferrara. His studies focus on coastal geomorphology and coastal risks.

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Prof. Danika van Proosdij

Dr. Danika van Proosdij is a coastal geomorphologist and professor in the Department of Geography and Environmental Studies at Saint Mary's University, Director and Co-Founder of TransCoastal Adaptations: Centre for Nature Based Solutions.

Email: dvanproo@smu.ca

Link <https://www.smu.ca/gri/boardofdirectors/Dr-Danika-Van-Proosdij-Profile.html>

Prof. Clara Armaroli

Dr. Clara Armaroli is an associate professor (GEOS-03/A) in Physical Geomorphology and Geomorphology of the Department of Biological, Geological and Environmental Sciences at the University of Bologna (Italy). Her studies focus on coastal risk and hazard assesment and coastal geomorphology.

Email: clara.armaroli2@unibo.it