



Carla Altieri

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WORK EXPERIENCE

03/01/2022 – CURRENT Genova, Italy

GEOTECHNICAL LABORATORY TECHNICIAN RINA CONSULTING GET

Execution of the main geotechnical laboratory tests for soil classification and characterization.
Execution of advanced static, dynamic and cyclic tests.
Data interpretation and processing.
Responsible for the calibration of test instruments.

Assistant to the Quality Manager for the management and preparation of the documentation relating to the test instrumentation and preparation for the audits for the ISO 9001 and Accredia ISO 17025 certifications.

Participation in international project for geotechnical and geophysical investigations for construction of strategic infrastructures relating to renewable energy such as the Baltyk I project in collaboration with Equinor and Polenergia.

15/08/2023 – 19/09/2023 Baltic Sea, Poland

OFFSHORE LABORATORY TECHNICIAN RINA CONSULTING

Preparation and calibration of instruments onboard for the analyses of sampled marine soil:

- kit ORP for the determination of oxidation-reduction potential;
- kit pH;
- kit SRB for the determination of presence of sulfur-reducing bacteria;
- Calcimeter
- Point Load
- Labvane
- Triaxial system with pressure pump for mechanical tests;
- Pocket penetrometer;
- Torvane;
- Fallcone;
- Thermal Probe TLS.

Setting up the laboratory on board the Dina Polaris Vessel and execution of the required tests. Interpretation and processing of data for report processing.
Using Gint.

06/2023 – 06/2023 Genova, Italy

CONSULTANT IN MARINE BIOLOGY IMMERSSEA S.R.L.

Analysis of the preliminary regulatory authorization aspects of an environmental and administrative nature for the construction of an underwater museum in the village of Laigueglia.

20/08/2021 – 31/12/2021 Catania, Italy

RESEARCH FELLOW UNIVERSITÀ DEGLI STUDI DI CATANIA

Study of the biodiversity of the benthic microfauna associated with bioconstructions in the coral environment of the Marzamemi area. The research grant is part of the Cresci Blu Reef project.
Use of multivariate statistical methods for data analysis.

09/2019 – 09/2021 Genova, Italy

TUTOR FOR STUDENTS WITH DSA AND DISABILITIES UNIVERSITÀ DEGLI STUDI DI GENOVA

Support in studying and preparing for exams such as: biology, zoology, organic and inorganic chemistry, mathematics, physiology, ecotoxicology, microbiology, marine geology, biotechnology, chemical oceanography, physical oceanography, biological oceanography.

06/2021 – 07/2021 Genova, Italy

SCIENCE EDUCATOR ASSOCIAZIONE CULTURALE MACRAME

Preparation and management of marine biology workshop for children.

07/2019 – 03/2021 Genova, Italy

INTERNSHIP AT THE DEPARTMENT OF EARTH, ENVIRONMENTAL AND LIFE SCIENCES UNIVERSITÀ DEGLI STUDI DI GENOVA

During this internship, the activities carried out, the laboratory techniques and instruments used were varied:

1. scientific diving for sampling;
2. use of techniques for the separation, via density difference, of the densest microparticulate from marine soil;
3. sorting and picking foraminifera via stereomicroscope for the determination of the biodiversity of these organisms, both recent and fossil, for the evaluation of the environmental state through the use of the FORAMS Stress Index;
4. analysis of foraminifera and microparticulates via micro-Raman spectroscopy;
5. preparation of samples for radiocarbon dating;
6. preparation of samples for the determination of total metal present in the soil using pseudo-total acid attack techniques;
7. preparation of samples for mineralogical analyses;
8. determination of the grain size classes of the analyzed sediment.

10/2019 – 10/2019 Genova, Italy

SCIENTIFIC ANIMATOR FESTIVAL DELLA SCIENZA

Exhibition and dissemination of the European Projects "Re-Life" on *Patella ferruginea* and "Roc-Pop Life" on *Cystoseira* sp. within the "Tipo da Scoglio" educational laboratory.

03/2016 – 01/2017 Genova, Italy

INTERNSHIP IN THE ENVIRONMENTAL ANALYTICAL CHEMISTRY UNIVERSITÀ DEGLI STUDI DI GENOVA

During this activity, the analytical methods for the determination of nutrients (dissolved silicon, inorganic phosphorus, nitrates, nitrites and ammonium ion) in seawater samples were learned. The methods were used for the measurement of parameters in samples taken during the oceanographic campaign of the T-REx project (Terra Nova bay Research Experiment) which took place in January-February 2012 in the Ross Sea (Antarctica) as part of the activity of the National Antarctic Research Program (PNRA).

The general objective of the project was to understand how the circulation dynamics that characterize the Ross Sea influence primary production and the efficiency of the biological pump in the sequestration of CO₂ through the redistribution of nutrients. The results obtained made it possible to chemically characterize surface waters in relation to sea ice melting processes and photosynthetic activities, and deep waters in relation to the presence of particular water masses identified on the basis of temperature and salinity. N/P and Si/N ratios were used to infer the composition of phytoplankton populations and to evaluate iron-deficiency conditions.

● **EDUCATION AND TRAINING**

01/11/2024 – CURRENT Genoa, Italy

INDUSTRIAL PHD STUDENT University of Genoa

This Industrial PhD Project was born from the need of the Rina Consulting GET company to expand the laboratory's offering and become independent from contracting out works concerning biostratigraphy and the study of foraminifera for environmental interpretations.

Evolutionary paleoecology offers a unique perspective for understanding environmental changes over geological time and can provide fundamental information even in those cases where the classic analysis used to understand the phenomena are not sufficiently reliable. This is the case, for example, of radiocarbon dating if the Old Wood Effect and

the Marine Reservoir Effect are not negligible: in this case the 14C dating, if integrated with of biostratigraphic data, can help cross-validate stratigraphic units.

Website <https://www.unige.it> |

Field of study Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics |

Thesis Evolutionary paleoecology: study of benthic communities for applications in the field of environmental monitoring

10/2018 – 06/2021 Genova, Italy

MASTER'S DEGREE IN MARINE BIOLOGY AND ECOLOGY, CURRICULUM ASSESSMENT AND MANAGEMENT OF THE MARINE ENVIRONMENT University of Genoa

Address Via Balbi 5, 16126, Genova, Italy | **Website** <https://www.unige.it> | **Final grade** 110/110 e lode |

Thesis Sedimentological, paleontological and microparticulate characterization of deposits taken from four sediment cores in an estuarine environment with high anthropic impact (Gulf of Tigullio, NW Italy)

10/2013 – 03/2018 Genova, Italy

BACHELOR'S DEGREE IN ENVIRONMENTAL SCIENCES University of Genoa

Address Via Balbi 5, 16126, Genova, Italy | **Website** <https://www.unige.it> | **Final grade** 100/110 |

Thesis Determination of nutrients in Antarctic seawater samples

28/10/2024

LINEAR REGRESSION: FROM THE RELIABILITY OF THE RESULTS TO THE DETERMINATION OF THE VALIDATION PARAMETERS Formazione ISO 17025

Website <https://www.formazioneiso17025.it/>

23/10/2023

ENVIRONMENTAL IMPACT ASSESSMENT AND STRATEGIC ENVIRONMENTAL ASSESSMENT COURSE
Pedago

Website <https://www.pedago.it>

05/06/2023 – 20/06/2023 Genova, Italy

KNOWLEDGE OF THE TECHNICAL, METROLOGICAL AND MANAGEMENT ASPECTS OF CALIBRATION ACTIVITIES, CALIBRATION PROCEDURE, STATISTICS AND UNCERTAINTY ASSESSMENT Accredia/INRiM

Website <https://www.accredia.it/evento/summer-school-2023/>

21/11/2022 – 23/11/2022 Pavia, Italy

BASIC OFFSHORE SAFETY INDUCTION & EMERGENCY TRAINING WITH EMERGENCY BREATHING SYSTEM
apt safety group/OPITO

Website <https://www.apsafetygroup.com/calendario/offshore-bosiet-eng-opito/>

14/07/2022

METROLOGICAL CONFIRMATION OF EQUIPMENT IN A TESTING OR CALIBRATION LABORATORY - PRACTICAL TOOLS ANGQ

Website <http://www.angq.com/index-sistemi.htm>

03/2021 Pavia, Italy

CERTIFICATE OF PARTICIPATION IN THE "CONSERVATION PALEOBIOLOGY" COURSE University of Pavia

Address C.so Strada Nuova, 65 - Pavia, Pavia, Italy | **Website** <https://web.unipv.it/>

2004 – 2009 Viterbo, Italy

DIPLOMA DI MATURITÀ CLASSICA Liceo classico Mariano Buratti

Address Via Tommaso Carletti n.8 - Viterbo (VT), 01100, Viterbo, Italy | **Website** <https://www.liceoburatti.edu.it/>

● LANGUAGE SKILLS

Mother tongue(s): **ITALIANO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
INGLESE	B2	B2	B1	B2	B2
SPAGNOLO	B2	B2	B2	B2	B1

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

● DIGITAL SKILLS

Advanced knowledge of statistical software such as: R, RStudio, Past | Excellent command of Microsoft Office (Word, Excel, Outlook) | Microsoft Office | Android | Windows | Utilizzo del browser | Linux - GNU/Linux | Fortran 90 | C++ | LaTeX (very good)

● PUBLICATIONS

2023

Preliminary data on ostracods and foraminifera living on coralligenous bioconstructions offshore Marzamemi (Ionian sea, SE Sicily)

2023

Ostracods and foraminifers living on hard bottoms in the Ionian Sea (E Sicily).

2022

Ostracods And Foraminifera Living On Coralligenous Bioconstructions Offshore Marzamemi

2022

Bridging together research and technological innovation: first results and expected bearings of the project CRESCIBLUREEF on Mediterranean Coralligenous

2022

Paleontology and technology for the sustainable management of marine natural monuments: the project CRESCI BLU REEF on Mediterranean Coralligenous.

2021

Particle selection processes and mineralogical diversity in an agglutinated textulariid foraminifer from a deltaic sediment: microRaman spectroscopy meets forams physiology

2021

What do shallow cores tell us when drilled in an anthropogenically active delta from northwest Italy?
