



● WORK EXPERIENCE

PHD STUDENT IN ANALYTICAL CHEMISTRY – UNIVERSITY OF CAMERINO – 30 Nov 2022 – 30 Nov 2025 – CAMERINO, ITALY

Title of PhD project: "Development of new analytical techniques for the characterization of marine sediments".

OFFSHORE AND NEARSHORE REPRESENTATIVE OF "SARDINIA NORTH WES FLOATING OFFSHORE WIND FARM PROJECT" AND "SICILY SOUTH FLOATING OFFSHORE WIND FARM PROJECT" – UNIVERSITY OF CAMERINO - ECOTECHSYSTEM SRL – Oct 2025 – Nov 2025

Sampling certification and on board microbiological analysis.

ANALYTICAL CHEMIST – MARINE GEOCHEMISTRY RESEARCH GROUP, DEPARTMENT OF ANALYTICAL CHEMISTRY, UNIVERSIDAD DE CÁDIZ – 11 Nov 2024 – 12 May 2025 – CADIZ, SPAIN

Chemical-physical characterization of marine sediments through analytical techniques:

- XRD
- sieving and laser diffraction (granulometry)
- chemical speciation of metals (sequential BCR extraction) coupled with ICP-OES
- Elemental analysis

OFFSHORE REPRESENTATIVE OF ADRIATIC LINK PROJECT (TERNA SPA) – UNIVERSITY OF CAMERINO - ECOTECHSYSTEM SRL – Aug 2022 – ITALY

Sampling certification and on board microbiological analysis.

OFFSHORE AND NEARSHORE REPRESENTATIVE OF TUNITA PROJECT (TERNA SPA) – UNIVERSITY OF CAMERINO - ECOTECHSYSTEM SRL – Dec 2021 – Jan 2022 – ITALY

Sampling certification and on board microbiological analysis.

UNIVERSITY TUTOR – UNIVERSITY OF CAMERINO – 2022 – 2025 – CAMERINO, ITALY

General and organic chemistry teaching tutor

Analytical Chemistry teaching and laboratories tutor (ICP-OES and GC techniques, from sampling to analysis)

Tutor "Disabili e DSA"

SCHOLARSHIP IN ENVIRONMENTAL CHEMISTRY – UNIVERSITY OF CAMERINO – 1 Dec 2021 – 30 Oct 2022 – CAMERINO, ITALY

- Metal analysis of environmental matrices with ICP-OES.
- Qualitative analysis with GC-MS and TD-GC-MS of VOC and BVOC through the use of adsorbent materials such as activated carbon, carbotrap and SPME.

CHEMISTRY TEACHER SECONDARY SCHOOL – ITCG F.CORRIDONI – 9 Oct 2017 – 30 Jun 2018 – CIVITANOVA MARCHE, ITALY

EDUCATION AND TRAINING

25 OCT 2023 – 27 OCT 2023 Milano, Italy

TRAINING COURSE IN "MH QUANT GCMS OGEN 2000C - GC-MS TECHNIQUES" Agilent Technology University

Website <https://www.agilent.com/en/training-events/events/agilent-education>

DEC 2021 Malta

BOSIET OPITO - BASICO OFFSHORE SAFETY INDUCTION & EMERGENCY TRAINING ISTC - The International Safety Training College

Website <https://istcollege.com.mt/shop/marine-industry/bosiet-with-ca-eps/> | **Valid until** Dec 2025

OCT 2019 – OCT 2021 Camerino, Italy

MASTER'S DEGREE IN CHEMISTRY AND ADVANCED CHEMICAL METHODOLOGIES (LM54) University of Camerino

Final grade 110/110 Laude |

Thesis Study of Biogenic Volatile Organic Compounds (BVOCs) emitted by vegetazione of San Domino (Tremite Island)

2020 Camerino, Italy

PF24 CREDITS University of Camerino

Type of credits credits for teaching | **Number of credits** 24

OCT 2016 – JUL 2019 Camerino, Italy

BACHELOR'S DEGREE IN CHEMISTRY University of Camerino

Final grade 110/110 Laude | **Thesis** Application of X-Ray Fluorescence in environmental field

20 MAY 2024 – 24 MAY 2024 Genova, Italy

MULTIVARIATE ANALYSIS SCHOOL Gruppo di Chimica Analitica e Chemiometria, Università degli studi di Genova

2011 – 2016 San Severino Marche, Italy

CHEMICAL SPECIALIST High School ITIS E.Divini

Final grade 99/100

NOV 2025 Ravenna, Italy

FOET OPITO - FURTHER OFFSHORE EMERGENCY TRAINING CFO - Centro Formazione Offshore

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2		B2	B2

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

● SKILLS

OriginLab | Lightroom | Chemdraw | MathLab: basic level

Microsoft

Microsoft Excel | Microsoft Powerpoint | Microsoft Word

● PUBLICATIONS

Exploring Environmental Element Monitoring Data Using Chemometric Techniques: A Practical Case Study from the Tremiti Islands (Italy).

Russo, R. E., Fattobene, M., Zamponi, S., Conti, P., Herrero, A., & Berrettoni, M. (2026). *Molecules*, 31(2), 232.

Comparative analysis of wheat heavy metal accumulation across multiple regions and the influence of cultivation practices.

Liu, F., Ma, C., Fattobene, M., Santoni, E., Russo, R. E., Zamponi, S., Conti, P., Zhang, H., & Berrettoni, M. (2025). *Ecotoxicology and Environmental Safety*, 303.

Design of Experiments Approach for Efficient Heavy Metals Stabilization Using Metakaolin-Based Geopolymers.

Russo, R. E., Santoni, E., Fattobene, M., Giovini, M., Genua, F., Leonelli, C., Lancellotti, I., Herrero, A., & Berrettoni, M. (2025). *Molecules*, 30(15).

Assessment of the Geochemical Availability and Ecological Risk of Trace Elements in Marine Sediments of the Tremiti Islands.

Fattobene, M., Russo, R. E., Berrettoni, M., & Galindo-Riaño, M. D. (2025). *Molecules*, 30(20).

ON-SITE monitoring OF BVOCS emission in Tremiti island, Italy

Fattobene, M., Papa, F., Russo, R. E., Zamponi, S., Conti, P., Taffetani, F., Sorci, A., Liu, F., & Berrettoni, M. (2024). *Heliyon*, 10(1).

Analysis of Posidonia oceanica's Stress Factors in the Marine Environment of Tremiti Islands, Italy

Fattobene, M., Santoni, E., Russo, R. E., Zamponi, S., Conti, P., Sorci, A., Awais, M., Liu, F., & Berrettoni, M. (2024). *Molecules*, 29(17).

Distribution of Elements in Durum Wheat Seed and Milling Products: Discrimination between Cultivation Methods through Multivariate Data Analysis

Fattobene, M., Liu, F., Conti, P., Zamponi, S., Governatori, C., Nardi, S., Russo, R. E., & Berrettoni, M. (2024). *Foods*, 13(12).

Determination of Heavy Metals in root and shoot of durum wheat, plant soil: translocation and bioaccumulation factor

Berrettoni, M., Zamponi, S., Conti, P., Fattobene, M., Liu, F., & Aborah, M. (2023). *Advanced Journal of Graduate Research*, 14(1), 38–50.

Hydrometallurgical Molybdenum Recovery from Spent Catalyst Using Tartaric Acid Derived from Agrifood Waste

Russo, R. E., Ventura, M., Fattobene, M., Zamponi, S., Conti, P., Berrettoni, M., & Giuli, G. (2023). *ACS Sustainable Chemistry and Engineering*, 11(43), 15644–15650.

Dechlorination of iron artefacts: A novel approach

Russo, R. E., Zamponi, S., Conti, P., Piloni, R., Pierigè, M. I., Faustoferri, A., Fattobene, M., & Berrettoni, M. (2023). *Materials Letters*, 338.

Sustainable Chromium Encapsulation: Alkali Activation Route

Sgarlata, C., Leonelli, C., Lancellotti, I., Mortalò, C., Berrettoni, M., Fattobene, M., Zamponi, S., & Giorgetti, M. (2022). *Frontiers in Materials*, 9.

● **CONFERENCES AND SEMINARS**

OCT 2025 Department of Engineering Enzo Ferraro, University of Modena

Invited Seminar of PRIN 2022 "ACCHA- Advanced Chemical. Characterization of Heavy metals and Anions encapsulated in geopolymers with synthetic redox environment"

MAY 2025 Mykonos

Oral communication at 12th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), and SECOTOX Conference

7 NOV 2024 Rimini

Oral communication - Ecomondo

Conference : "CARATTERIZZAZIONE DEGLI AMBIENTI MARINI - approccio multidisciplinare – un breve viaggio tra criticità e opportunità di un mondo in continua crescita"

MAY 2023 Padova

Poster session at XI Colloquium Chemiometricum Mediterraneum

SEP 2022 Perugia

Poster at Interregional Meeting of the Italian Chemical Society – Section Toscana, Umbria, Marche and Abruzzo (TUMA 2022)

● **LICENCE**

EQDL – The European Quality Driving Licence

Open Water Diver SSI

B2 English First Certificate
