CURRICULUM VITAE

MORINI MADDALENA



PERSONAL INFORMATION

Surname, Name

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Nationality	Italian
Date of birth	20-11-1997
EDUCATION AND TRAINING	
 Dates (from – to) Name and type of organisation providing education 	1-11-2022- on going. Ph.D. Course in <i>Cultural and Environmental Heritage</i> , University of Bologna
Principal subjects covered	PhD student at the University of Bologna studying new methods for biochar valorization (mainly as an adsorbent). Activities will include the use of biochar for contaminant filtration from wastewater; the use of biochar for the remediation of contaminated soils; the design and production of new composite materials containing biochar.
• Title of qualification awarded	Ph.D. in Cultural and Environmental Heritage
 Dates (from – to) Name and type of organisation providing education 	2019-2022 M.Sc. Course in Environmental Assessment and Management, curriculum Climate KIC, University of Bologna
Principal subjects covered	The Course in Environmental Assessment and Management offers mandatory classes on Chemical Analysis of Environmental Quality, Environmental Legislation, Land Management Principles, Multivariate Statistical Analysis, Physiology Applied to The Environment, Ecological Methods for the Analysis and the Management of the Environment, Environmental Hydrology, Environmental, Political and Economic Management Systems, Prevention and Control of Environmental Impact, plus an Interdisciplinary practical Laboratory. Several other subjects can be chosen by the students on Botanic, Geochemistry, Geophysics, Soil Science, Pollutants. During the period of my master thesis, I spent one month at the Fraunhofer UMSICHT Institute in Sulzbach-Rosenberg (Germany) to be familiar with and observe how a large-scale pyrolysis facility coupled with a reforming step (TCR technology) produces biochar, bio-oil and syngas. I gained knowledge on how to handle system issues and evaluate the quality of various output products, with laboratory measurements on GC-MS and CHNS.
Title of qualification awarded	M.So. in Environmental Associational Management

• Title of qualification awarded M.Sc. in Environmental Assessment and Management

> · Final score 110 cum laude

 Dates (from – to) 	2016-2019
Name and type of organisation providing education	B.Sc. Course in Environmental Sciences, University of Bologna
Principal subjects covered	The Course in Environmental Sciences offers a broad teaching plan, with the aim of creating an expert able to study the environment with a multidisciplinary approach. Beyond the basic scientific subjects, such as mathematics, chemistry, geology, ecology and physics, I have attended characterizing courses, such as Renewable Energies and Energy Management, Environmental Chemistry, Eco-compatible Development and Anthropogenic Alterations, Structure and Dynamics of the Atmosphere and the Ocean.
Title of qualification awarded	B.Sc. in Environmental Sciences
Ranking	final score: 103/110
Dates (from – to) Name and type of organisation providing education	2011-2016 Agricultural Technical Institute "Antonio Zanelli", major in environmental management.
Principal subjects covered	Agronomy, livestock production, environmental and food chemistry, biotechnology, entomology, microbiology, applied English, mathematics, Italian, physics and earth sciences. Throughout these academic years I got the chance to conduct activities on the school farm. I even learned how to make grafts, prune fruit trees and vines, and do the tasks required to care for the farm's animals.
 Title of qualification awarded 	Technical Diploma.
SCIENTIFIC ACTIVITY	I received my degree in environmental sciences in 2019 and wrote my thesis on the Ravenna municipality's path, the Covenant of Mayors, and the C.L.E.A.R. method (City and Local Environmental Accounting and Reporting). In this work I followed the action plan put forth by the city of Ravenna to carry out its sustainable energy plan. I focused on the expected number of actions and associated tonnes of CO2eq saved for each intervention area (public lighting, spatial planning, urban green development, local generation of energy from renewable sources, etc.). During both the bachelor and the first year of the master course I attended various laboratories on chemistry, biology, physics, pedology, ecology, physiology and other scientific fields. As I was writing my master thesis, I spent one month at the Fraunhofer UMSICHT Institute, Sulzbach-Rosenberg branch, Germany, where I worked on the experimental part of my master thesis within the H2020 European project TO-SYN-FUEL (www.tosynfuel.eu). I began working as a research associate at the University of Bologna's Environmental Management and Research group in May 2022, where I had the opportunity to approach different analytical instruments, including a gas chromatograph coupled with a mass spectrometer (GC-MS), a physisorbimeter for determining the specific surface area of porous materials, a CHNS for elementary analysis, and muffle furnaces for producing carbons from various materials. During this research fellowship, I began investigating biochar as a filter material to get a great remotion capacity of primarily organic and halogenated pollutants from wastewater. In November 2022 I began my PhD in Cultural and Environmental Heritage in which I started to characterize activated carbons in order to create a second-generation carbon obtained by
	characterize activated carbons in order to create a second-generation carbon obtained by biological waste with the same properties and adsorption performances as activated carbons.

WORK EXPERIENCE

• Dates (from – to)	01/05/2022 – 01/11/2022
Name and address of employer	University of Bologna Environmental science
• Type of sector	
Occupation and position held	Research fellow
 Main activities and responsibilities 	Remediation of wastewater with biochar. Batch tests with real water sample contaminated by organic and halogenated pollutants. The aim was to assess the sorption ability of biochar produced by woody biomass and mix of biomass and industrial wastes.
• Dates (from – to)	01/11/2021 - 01/12/2021
Name and address of employer	Fraunhofer UMSICHT Institute, Sulzbach-Rosenberg, Germany
 Type of sector 	Environmental Sciences
Occupation and position held	Internship trainee
Main activities and responsibilities	Maintenance and operational control of the TCR-500. Supervision of the management program that regulates the plant's entering and outgoing flows. Examination and quality assurance of products exiting from the plant.
• Dates (from – to)	01/02/2019 - 01/06/2019
 Name and address of employer 	Comune di Ravenna
 Type of sector 	Scientific dissemination
 Occupation and position held 	Support to the activities of the "Action Plan for Sustainable Energy" (Piano di Azione per l'Energia Sostenibile) initiative.
 Main activities and responsibilities 	Study and measurement of the decrease in CO2eq emissions as the result of various key activities, including infrastructure construction, urban green development, spatial planning, urban lighting, and others.
• Dates (from – to)	01/05/2017 – now
Name and address of employer	Rifugio Monte Orsaro, Villa Minozzo (RE).
Type of sector	Restoration
Occupation and position held	Waitress, bartender
Main activities and responsibilities	Ensure good costumer service. I usually work in this place for one or two weeks in August. If it's a busy time of year, I start at 8:00 and finish at 00:00 or 1:00. In fact, it's crucial to retain efficiency and patience.
• Dates (from – to)	Oct 2019 – Feb 2020
Name and address of employer	Leblon S.r.I, Via Matteotti, Ravenna (RA).
Type of sector	Clothing store
Occupation and position held	Shop assistant
 Main activities and responsibilities 	Sales manager, relationship with customers and suppliers, inventory, warehouse and goods management.
• Dates (from – to)	01/06/2014 – 01/08/2014
Name and address of employer	Bar G.R.A.F. , Via Emilia all'ospizio, 29, Reggio Emilia (RE).
• Type of sector	Bar
Occupation and position held	Bartender
Main activities and responsibilities	Sales manager, relationship with customers, tasting room management.

 Dates (from – to) 	01/05/2014 - 31/05/2014
 Name and address of employer 	Day centre "Casa Ferrari", via Gattalupa 5/3, Reggio Emilia (RE).
 Type of sector 	Social assistance
 Occupation and position held 	Assistance for people with disabilities
 Main activities and responsibilities 	Creative activities for people inside the house.

OTHER SKILLS AND COMPETENCE

MOTHER TONGUE	ITALIAN
OTHER LANGUAGE Level	English B2
RELATIONAL CAPACITIES AND COMPETENCES	Thanks to the wide range of clients I dealt with when I first started working at the Monte Orsaro shelter, I improved my communication skills. I grew quite close to everyone on staff and mastered how to handle really long workdays. At the high school, I have established excellent relationships with most of the professors and classmates. In fact, some of my ex-classmates are right now very important people in my life. I had the chance to work in groups on various projects during my master's degree; the work has always been stimulating, and the outcomes very good.
ORGANIZATIONAL SKILLS	I am well-organized because I attend both sports practices and classes simultaneously. Self-organization has always been crucial to my success as a worker.
DRIVING LICENSE	Italian B (cars)
COMPUTER SKILLS AND COMPETENCES	Microsoft Office Suite, QGIS, GaBiEducational, Vensim.