



Curriculum Vitae Europass

Personal information

First name / Surname **Mariem Ayadi**
E-mail mariem.aayadi@gmail.com
Nationality Tunisia
Date of birth 12/06/1995
Gender Female

Work experience

Dates February 2024 – Current date
Occupation or position held Postdoctoral Researcher – Environmental fate risk assessor and Methods of analysis
Main activities and responsibilities Examination and evaluation of dossiers for national and zonal registration of plant protection products and for European registration of active substances (environmental fate section).
Name and address of employer ICPS – International Centre for Pesticides and Health Risk Prevention, ASST Fatebenefratelli Sacco, via G.B. Grassi 74, 20157 Milano, Italy.

Education and training

Dates September 2021 – November 2023
Title of qualification awarded Ph.D. in **Analytical Chemistry/Environmental Focus**
Principal subjects/occupational skills covered Thesis title “Design and optimization of vertical planted filters (Constructed wetlands) for the treatment of domestic wastewater”. Supervisor: Prof. Massimo Del Bubba.
Principal subjects: Environmental chemistry, Valorization of biomass, Treatment of wastewater.
Name and type of organisation providing education and training University of Florence (Italy), Department of Chemistry “Ugo Schiff” DICUS
Level in national or international classification 3rd cycle degree – Doctorate
Dates April 2020 - August 2021
Title of qualification awarded Ph.D. in **Analytical Chemistry**
Principal subjects/occupational skills covered Thesis title “Design and optimization of vertical planted filters (Constructed wetlands) for the treatment of domestic wastewater”. Supervisor: Prof. Massimo Del Bubba.
Principal subjects: Environmental chemistry, Valorization of biomass, Treatment of wastewater.
Name and type of organisation providing education and training National Institute of Physical-Chemical Research and Analysis (INRAP, Tunisia), Tunisia, Laboratory of Materials, Treatment and analysis (LMTA).

Level in national or international	3rd cycle degree – Doctorate																																																		
Dates	September 2017 - January 2020																																																		
Title of qualification awarded	Master's degree research in Analytical Chemistry																																																		
Principal subjects/occupational skills covered	Thesis title: "Treatment of polluted surface water with artificial planted reed filters". Supervisor: Dr. Cheima fersi. Principal subjects: Environmental chemistry, surface water pollution and remediation, Processes with low environmental impact and low operating costs.																																																		
Name and type of organisation providing education and training	Faculty of Science Tunis Manar, Tunisia, Laboratory of Materials, Treatment and analysis (LMTA, INRAP)																																																		
Level in national or international classification	2nd cycle degree - Master																																																		
Dates	September 2014 – July 2017																																																		
Title of qualification awarded	Bachelor's degree in Chemistry																																																		
Name and type of organisation providing education and training	Faculty of Sciences Tunis Manar, Tunisia																																																		
Dates	September 2013 - June 2014																																																		
Title of qualification awarded	High School diploma																																																		
Name and type of organisation providing education and training	Secondary school, Ariana, Tunisia																																																		
Mother tongue	Arabic																																																		
Languages																																																			
Self-assessment																																																			
European level (*)																																																			
English																																																			
French																																																			
Italian																																																			
	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>B2</td> <td>Intermediate level</td> <td>B2</td> <td>Intermediate level</td> <td>B2</td> <td>Intermediate level</td> <td>B2</td> <td>Intermediate level</td> <td>B2</td> <td>Intermediate level</td> </tr> <tr> <td>C1</td> <td>Excellent</td> <td>C1</td> <td>Excellent</td> <td>C1</td> <td>Excellent</td> <td>C1</td> <td>Excellent</td> <td>C1</td> <td>Excellent</td> </tr> <tr> <td>B2</td> <td>Higher level</td> <td>B2</td> <td>Higher level</td> <td>B2</td> <td>Higher level</td> <td>B2</td> <td>Higher level</td> <td>B2</td> <td>Higher level</td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B2	Intermediate level	B2	Intermediate level	B2	Intermediate level	B2	Intermediate level	B2	Intermediate level	C1	Excellent	C1	Excellent	C1	Excellent	C1	Excellent	C1	Excellent	B2	Higher level	B2	Higher level	B2	Higher level	B2	Higher level	B2	Higher level
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Listening		Reading		Spoken interaction		Spoken production																																													
B2	Intermediate level	B2	Intermediate level	B2	Intermediate level	B2	Intermediate level	B2	Intermediate level																																										
C1	Excellent	C1	Excellent	C1	Excellent	C1	Excellent	C1	Excellent																																										
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	(*) Common European Framework of Reference for Languages																																																		
Social and organisational skills and competence	Good ability to organize the work and manage projects matured during the university and from work experience																																																		
Technical skills and competences	Knowledge of the european procedures of environmental risk assessment of plant protection products. Experience in the use of FOCUS EU models for the environmental fate assessment. Maintained accurate records of all analytical results for future reference. Developed and implemented methods for improving the accuracy and speed of the analytical process.																																																		
Computer skills and competences	Good knowledge of the Microsoft Windows operating system, Internet surfing and Office programs (Word, Excel, Power Point, Access). Environmental modelling softwares (PEARL, PELMO, FOCUS STEP 1-2, SWASH, SWAN, PERSAM, RICEWQ-RIVWQ)																																																		

Driving licence B (in progress)

Further information

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

- 2022: Excellence travel award of a scholarship to carry out a research period while pursuing doctoral program (starting in September 2022) at University of Florence, Ugo Schiff, Italy
- 2022: Researcher Mobility for Traineeships " to carry out a period of research during the course of the doctoral program (starting in February 2022) at University of Florence, Ugo Schiff, Italy
- 2021: Excellence travel award of a scholarship to carry out a research period while pursuing doctoral program (starting in September 2021) at University of Florence, Ugo Schiff, Italy
- 2019: Exchange scholarship funded by the German Academic Exchange Service DAAD Internship at the Faculty of Science in Rabat, Morocco

TRAINING OR RESEARCH ACTIVITY

10 September 2021-08 February 2022: 5-month study and research collaboration period at the Department of Chemistry "Ugo Schiff".

Implementation of the following activities:

- ✓ Production and characterization of carbon-based adsorbent materials using various analytical techniques such as Brunauer-Emmett-Teller (BET), X-ray diffraction (XRD), elemental analysis (EA), metal analysis, and polycyclic aromatic hydrocarbon (PAH) analysis.
- ✓ Monitoring the removal performance of a pilot-scale constructed wetland integrated with the carbon-based adsorbent materials.

09 February 2022-31 July 2022: Mission was carried out with the University of Florence: The research activity was carried out on the legal basis of the university's call for proposals 2022 for the funding of internationalization activities

01 September 2022-29 December 2022: internship period at the Department of Chemistry Ugo Schiff Florence Italy

- ✓ Production and characterization of different carbon-based adsorbent materials with different Technique's analysis, such as Brunauer-Emmett-Teller (BET), X-ray diffraction (XRD), Elemental analysis (EA), analysis of metals, elemental analysis (EA), metals and polycyclic aromatic hydrocarbons (PAHs).

June 2019 - Jul 2019: Internship and workshop participation, Technical University of Berlin (TU berlin EL Gouna)

- ✓ Design of constructed wetlands.
- ✓ Training in analytical methods of analysis.

Feb - Sep 2019: Master research internship in analytical chemistry, phytoremediation of polluted surface water and optimization of constructed wetlands, National Institute of Physical-Chemical Research and Analysis. (INRAP, Tunisia)

- ✓ Construction of plant filters.
- ✓ Wastewater treatment.

Project activity

2019 ERANETMED DEWESUSWAMA PROJECT (Technical University of Berlin)

CONGRESSES AND SEMINARS

20-23 Giugno 2022: XIX Congresso Nazionale della divisione di Chimica dell'Ambiente e dei Beni Culturali (Torino, Italy)

17-18 Novembre 2022: Incontri di Scienza delle Separazioni Florence, Italy

27-29 Dicembre 2021: Sustainable chemistry for sustainable agriculture Sousse, Tunisia

Articles in reviews

Mariem Ayadi; Davide Passaseo; Giulia Bonaccorso; Michelangelo Fichera; Lapo Renai; Lorenzo Venturini; Ilaria Colzi; Donatella Fibbi; Massimo Del Bubba "Biochar from co-pyrolysis of biological sludge and sawdust in comparison with the conventional filling media of vertical-flow constructed wetlands for the treatment of domestic-textile wastewater" Water Sci Technol (2024) 89 (5): 1252–1263. <https://doi.org/10.2166/wst.2024.056>

Vertical Constructed Wetlands integrated with biochar as a green nature-based solution for

wastewater treatment (in progress)

Congress proceedings

Presented poster entitled "Analysis Of Pharmaceutical Compounds In Influent And Effluent Wastewater Of Vertical-Flow Constructed Wetlands Integrated With Biochar" Incontri di Scienza delle Separazioni 2022, florence, Italy.

Presented poster entitled "REMOVAL EFFICIENCY OF PHARMACEUTICAL COMPOUNDS BY VERTICALFLOW CONSTRUCTED WETLANDS INTEGRATED WITH BIOCHAR, TREATING URBAN WASTEWATER" XIX Congresso Nazionale della Divisione di Chimica dell'Ambiente e dei Beni Culturali 2022, Torino, Italy.

"In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document."

July 2024