






PERSONAL INFORMATION



Sara Aquilia

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Gender Female | Date of birth Jan 3 1997 | Nationality Italy

WORK EXPERIENCE

Jan 2022 - present

PhD student

Development of macromolecular and cross-linked materials based on proteins/peptides from vegetable or animal sources.

This multidisciplinary project is realised by carrying out the proposed activities partially in PeptLab of the University of Florence and partially at the Spin-PET company.

University of Florence , Via della Lastruccia, 3, 50019 Sesto Fiorentino FI - FIRENZE (FI) Italy

Business or sector chemistry

Jul 2021 - Dec 2021

University Research Fellow

Development of a new economic and eco-sustainable approach for the production of peptides with phytosanitary action

University of Padua - Italy , Via Marzolo1 - PADOVA (PD) Italy

Business or sector chemistry

Sep 2020 - Feb 2021

Undergraduate Internship

Foldamer approaches to Enzyme Engineering.

Institut européen de chimie et biologie , 2, rue Robert Escarpit 33607 Pessac, France - BORDEAUX France

Business or sector chemistry

Sep 2018 - Oct 2018

Undergraduate Internship

Synthesis of psuedopeptides and preparation of supramolecular gels

Alma Mater Studiorum - University of Bologna , via Selmi 2 - BOLOGNA (BO) Italy

Business or sector chemistry

EDUCATION AND TRAINING

2018 - 2021

Chemistry

EQF level 7

Alma Mater Studiorum - Università di Bologna - School of Science

2nd level-cycle degree/Master of Science (2 years)

2015 - 2018

Chemistry and Material Chemistry

EQF level 6

Alma Mater Studiorum - Università di Bologna - School of Science

1st level-cycle degree/Bachelor (3 years)

Pre-university studies

Secondary school diploma: Classical High School, European/International section

School-leaving examination taken in (year): 2015

Italian secondary school diploma

PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

	UNDERSTANDING				SPEAKING				WRITING	
	Listening		Reading		Spoken interaction		Spoken production			
English	B2	Independent	B2	Independent	B2	Independent	B2	Independent	B2	Independent
French	A2	Basic	A2	Basic	A2	Basic	A2	Basic	A2	Basic

## Linguistic experience(s)

### European Union program

Erasmus +

Language: English

Duration of studies in months: 6

Foreign country where the academic studies were carried out: Bordeaux (France)

Description: carrying out the curricular internship at the Institut européen de chimie et biologie.

## Communication skills

Excellent relational skills

- Ability to adapt to multicultural environments and to work in groups
- good problem solving

## Job-related skills

Excellent skills in the execution of bibliographic research through the university Ezproxy service and in the use of latest generation databases (e.g. REAXIS).

Excellent knowledge of experimental methodologies (quantitative and qualitative analysis techniques, processing techniques, purification techniques), instrumental methodologies ,organic synthesis methodologies (techniques of synthesis in ambient and modified atmosphere, comparative assessment of the various synthetic solutions based on concepts of feasibility, practicality, economy and sustainability.) and characterisation (Elementary analysis; IR, 1H ,13C and bidimensional NMR, HPLC-MS, GC-MS).

## Digital competences

SELF-ASSESSMENT				
INFORMATION PROCESSING	COMMUNICATION	CONTENT CREATION	SAFETY	PROBLEM SOLVING
Proficient user	Proficient user	Basic user	Independent user	Proficient user

Digital competences - Self-assessment grid

### Basic digital competence:

#### OFFICE AUTOMATION

**Spreadsheets:** (Highly Specialised) | **Web Browser:** (Highly Specialised) | **Word Processors:** (Advanced)

#### SYSTEMS AND NETWORKS MANAGEMENT

**Operating systems:** (Highly Specialised)

## Driving licence

B

## ADDITIONAL INFORMATION

- Excellent skills in the execution of bibliographic research through the university Ezproxy service and in the use of latest generation databases (e.g. REAXIS).
- Excellent ability to program and conduct an experiment, design the times and modes. autonomy of judgement in evaluation and quantifying the result.
- Excellent knowledge of experimental methodologies for the synthesis and characterization (Elementary analysis; IR, 1H ,13C and bidimensional NMR, HPLC-MS, GC-MS) of organic and inorganic compounds.
- Excellent relational skills
- Ability to adapt to multicultural environments and to work in groups
- Good problem solving