

PERSONAL INFORMATION



**Carla Orlando**

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Gender Female | Date of birth Dec 28 1996 | Nationality Italy

PREFERRED JOB

chemical application specialist

WORK EXPERIENCE

Jun 2021 - present

**Research Fellow at the PROMOCS Laboratory**

Use of programs, such as Amber and Gromacs, to model more or less complex molecular systems by means of quantum mechanical calculations, molecular docking and molecular dynamics. Department of Chemistry and Chemical Technologies, UNICAL , Pietro Bucci 87036 - RENDE (CS) ITALY *Activities or sector* Chemistry

Jan 2021 - Jun 2021

**Voluntary postgraduate traineeship**

Main activities: Preparation and chemical-physical characterisation of drug delivery systems. Laboratory of Pharmaceutical and Cosmetological Technology , Multipurpose Building - RENDE (CS) ITALY

Apr 2019 - Feb 2020

**Undergraduate Internship**

Farmacia Aversa Dss.a Raffaella , Viale dei Bizantini, 11 - CATANZARO (CZ) Italy *Business or sector* chemical-pharmaceutical industry

EDUCATION AND TRAINING

2015 - 2020

**CHIMICA E TECNOLOGIA FARMACEUTICHE**

EQF level 7

University of Calabria - Department of Pharmacy and Health Sciences and Nutrition Single-cycle Master Degree (5/6 years)

*Principal subjects/occupational skills covered:*

Competences: Management and execution of laboratory methods and instrumentation to detect the chemical and physical structure and define the chemical, biological, organoleptic and nutraceutical characteristics of chemical pharmaceutical substances,

Subjects: Pharmaceutical Technology and Legislation, Pharmaceutical Analysis, Pharmaceutical and Organic Chemistry, Biochemistry and Pharmacology

**Pre-university studies**

Secondary school diploma: Technical education, technology sector, chemistry, materials and biotechnology, environmental biotechnology branch

Year of graduation:  
2015 Italian diploma

PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

English

UNDERSTANDING				SPEAKING				WRITING	
Listening		Reading		Spoken interaction		Spoken production			
B1	Independent	B2	Independent	B1	Independent	B1	Independent	B2	Independent

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
 Common European Framework of Reference for Languages

Communication skills

TeamWork.

Organisational / managerial skills  
 Job-related skills

Experience in group management acquired during school and university training;  
 Use of laboratory equipment, such as:  
 UV Spectrophotometer, Zeta Sizer nano (DLS, Z-Potential), Optical Microscope, GC-MS Spectrometer, IR and HPLC, Rotavapor, pH meter, Lyophilizer, Pulse and Bath Sonicator, Viscometer, TGA; Computer programs, such as: Microsoft Office, ChemSketch, ChemDraw, BioRender.

Detecting the chemical and physical structure of chemical pharmaceutical substances.  
Define the chemical, biological, organoleptic and nutraceutical characteristics of processed products.  
Molecular modelling programmes, such as: GROMACS, Amber, Gaussian, VMD-Visual Molecular Dynamics, Autodock4.  
Knowledge of the Python programming language

## Driving licence

B

## PUBLICATIONS

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### Journal articles

"New Nanomaterials with Intrinsic Antioxidant Activity by Surface Functionalization of Niosomes with Natural Phenolic Acids" ; Elisabetta Mazzotta, Carla Orlando and Rita Muzzalupo. ; Pharmaceutics ; Carlotta Marianecchi (2021)  
[doi.org/10.3390/pharmaceutics13060766](https://doi.org/10.3390/pharmaceutics13060766)

## FURTHER INFORMATION

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A.Y. 2020/2021: Participation with its own team in the 19th PNI 2021.  
A.Y. 2020/2021: Winner with her team of the 13th edition of START CUP CALABRIA 2021.  
A.A 2020/2021: Winner with her Team of the IV Contamination Lab Unical cycle (UniCaLab); 04/  
2013: Study holiday at the Institute of English Language Studies of Sliema.  
A.S 2013: Project PON C5: ASL - The olive: from nutritional richness to environmental value.

## ATTACHMENTS

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1. Scientific publication: New Nanomaterials with Intrinsic Antioxidant Activity by SurfaceFunctionalization of Niosomes with Natural Phenolic Acids.
2. Insurance certificate (Postgraduate training)
3. Course certificate (Project PON C5)