



RICCARDO ZEMA

SUMMARY I am an **Italian student** born in Rome on ____/1995. I obtained the BSc in **chemistry** at the University of Rome "La Sapienza" and then I completed my studies with the MSc degree in **materials science** at the University of Padua. I also obtained two **Erasmus+** grants: the first one for studies during my master, the other one, as a post-graduated trainee at IQAC-CSIC in Barcelona. Moreover, I worked as a **junior researcher** for 13 months at INL in Braga, Portugal, before obtaining the doctoral grant at University of Perugia in 2022.

EXPERIENCE **INTERNSHIP IN INORGANIC CHEMISTRY, "LA SAPIENZA" UNIVERSITY OF ROME**

Apr 2017 – Jun 2017

Synthesis and characterization of metal nanoparticles to study their stability and dimensional distribution through DLS and Zeta Potential measurements.

Supervisor: Prof. Ilaria Fratoddi

INTERNSHIP IN SUPRAMOLECULAR CHEMISTRY, UNIVERSITY OF PADUA

Sep 2019 – Oct 2020

Synthesis and characterization of functionalized gold nanoparticles designed for NMR chemosensing of molecules involved in metabolic processes.

Supervisor: Prof. Fabrizio Mancin

ERASMUS+ POST-GRADUATION INTERNSHIP AT IQAC-CSIC (INSTITUT DE QUÍMICA AVANÇADA DE CATALUNYA), BARCELONA, SPAIN

Jan 2021 – Jul 2021

Synthesis and characterization of hybrid nanosystems composed by gold nanorods and biodegradable polymer nanoparticles for combined phototherapy.

Supervisor: Carlos Rodriguez-Abreu

JUNIOR RESEARCH FELLOW POSITION AT INL (INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY), BRAGA, PORTUGAL

Aug 2021 – Oct 2022

Development of an efficient catalytic system consisting of a carbon-based catalyst supported on a porous ceramic membrane for the removal of organic micro-pollutants from the effluents.

Supervisor: Juliana Sousa

EDUCATION “LA SAPIENZA” UNIVERSITY OF ROME – BACHELOR’S DEGREE IN CHEMISTRY

Period of studies: Sep 2014 – Sep 2017

Evaluation: 100/110

The courses provided general knowledge in organic, inorganic and analytical chemistry, physical chemistry and some basic physics and maths.

UNIVERSITY OF PADUA – MASTER’S DEGREE IN MATERIALS SCIENCE

Period of studies: Oct 2017 – Oct 2020

Evaluation: 106/110

The courses provided specific knowledge in fields of research for innovative functional materials through the study of chemistry and physics behind these materials with a deeper view in the world of nanoscience. Moreover, some courses aimed to teach important materials characterization techniques.

UNIVERSITY OF BORDEAUX I – ERASMUS+ FOR STUDIES

Period of studies: Sep 2018 – Feb 2019

A 5-month formative experience in which I achieved three exams. The courses generally aimed to learn the newest research in advanced properties materials giving a lot of space to practical approach, group works and dynamic interaction with the teachers.

UNIVERSITY OF PERUGIA – PHD COURSE IN PHOTOINDUCED PROCESSES AND TECHNOLOGIES

Period of studies: Nov 2022 – Ongoing

A 3-year doctoral programme on the interdisciplinary study of light-matter interactions and their potential technological output. My project consist on the bottom-up synthesis of plasmon-assisted photocatalysts to study the role of LSPR effect in photocatalytic processes.

LANGUAGES **Italian:** mother tongue
Portuguese: very good
English: B2
Spanish: B2
French: A2

OTHERS I have a **driving licence B**

REFERENCES **Prof. LATTERINI, LOREDANA**
University of Perugia
loredana.latterini@unipg.it

RODRIGUEZ-ABREU, CARLOS
IQAC-CSIC
cranqb@cid.csic.es

Prof. MANCIN, FABRIZIO
University of Padua
fabrizio.mancin@unipd.it

Prof. FRATODDI, ILARIA
University of Rome "La Sapienza"
ilaria.fratoddi@uniroma1.it

ATTACHED FILES BSc degree (with final grade); MSc degree (with final grade and exams); Erasmus+ learning agreement after the mobility (signed by supervisor in IQAC-CSIC)