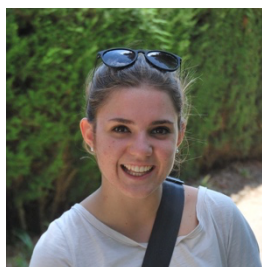


PERSONAL  
INFORMATION

Francesca Fraulini



📍 41014 Castelvetro di Modena, Modena, Italy

✉ [francesca.fraulini@unimore.it](mailto:francesca.fraulini@unimore.it)

Sex F | Date of birth 08/02/1997 | Nationality Italiana

POSITION PhD Student

## WORK EXPERIENCE

November 2021 - Present

**Ph. D. Course in "Models and Methods for Material and Environmental Sciences"**

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, 41125 Modena (MO), Italy

Supervisor: Prof. G. Lusvardi

- Project: "Bioactive materials: design, functionalization, in vitro-in vivo application"

ay 2020/2021

**Master's Degree Internship**

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, 41125 Modena (MO), Italy

Supervisors: Prof. G. Lusvardi, Prof. A. Zambon

- Synthesis, functionalisation with biomolecules and characterisation of new inorganic biomaterials aimed at drug delivery systems development. Collaboration with Prof. M. Rossi's research group (University of Modena and Reggio Emilia) for the optimization of antibacterial tests on the above mentioned biomaterials

ay 2018/2019

**Bachelor's Degree Internship**

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, 41125 Modena (MO), Italy

Supervisor: Prof. G. Lusvardi

- Repurpose of inertised cement-asbestos as a secondary raw material for inorganic ceramic pigments. Acquisition of solid state synthesis skills and knowledge on solid state characterisation techniques such as powder X-ray diffraction (XRD), scanning electron microscopy and energy dispersive spectrometry (SEM-EDS)

## EDUCATION AND TRAINING

October 2019 – September 2021

**Master's Degree in Chemical Sciences, final grade 110/110 cum laude**

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, 41125 Modena (MO), Italy

- Thesis: "Study of bioactive glasses containing biologically important ions and molecules". Supervisors: Prof. G. Lusvardi, Prof. A. Zambon

September 2016 – September 2019

**Bachelor's Degree in Chemistry, final grade 110/110 cum laude**

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, 41125 Modena (MO), Italy

Thesis: "Inert asbestos recycling technologies for pigment production". Supervisors: Prof. G. Lusvardi, Prof. A. F. Gualtieri

September 2017 – January 2018

**Erasmus+ at Lincoln (UK)**

School of Chemistry, University of Lincoln (UK)

- 33 CFU on theoretical and laboratory exams

September 2010 – June 2016

**Scientific high school diploma, final grade 100/100 cum laude**

Scientific High School Alessandro Tassoni, Viale Virginia Reiter, 66, 41121, Modena (MO), Italy

**COURSES**

19<sup>th</sup> October 2021 (7 hours)

**BioMaH Online Workshop**

- Topic: "Biomaterials and novel technologies for healthcare"

June 2016 (20 hours)

**School-Work Alternation**

Department of Chemistry and Pharmaceutical Technologies, University of Modena, 41125 Modena (MO), Italy with Chiesi Farmaceutici S.p.A

- Topic: "New therapeutic frontiers in the era of biotechnology"

June 2014 (26 hours)

**Life Sciences Summer School**

Fondazione Golinelli, Via Paolo Nanni Costa, 14, 40133, Bologna (BO), Italy

- Topic: "Advanced techniques in plant biology"

**PUBLICATIONS**

- Raimondi, S., Zambon, A., Ranieri, R., Fraulini, F., Amaretti, A., Rossi, M., & Lusvardi, G. (2021). Investigation on the antimicrobial properties of cerium-doped bioactive glasses. *J Biomed Mater Res.*, 1–5. 10.1002/jbm.a.37289
- Zambon, A., Malavasi, G., Pallini, A., Fraulini, F., & Lusvardi, G. (2021). Cerium Containing Bioactive Glasses: A Review. *ACS Biomater. Sci. Eng.*, 7(9), 4388–4401. 10.1021/acsbomaterials.1c00414

**AWARDS**

- 2016 Diploma Award, worth 500,000€, established by Banco Popolare di San Geminiano e San Prospero

**PERSONAL SKILLS**

Mother tongue

Italian

Other language(s)

Inglese

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1
IELTS Academic test (20/06/2017), Overall Band Score 8.0, CEFR Level C1				

Communication skills

- Good communication skills acquired during private one-on-one and small group student tutoring

Computer skills

- Good command of office suite tools (word processor, spreadsheet, presentation software)

Driving licence

B