

PERSONAL INFORMATION

Chiara Cavazzoli



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✉ chiara.cavazzoli99@gmail.com

Sex F | Date of birth 03/03/1999 | Nationality Italian

POSITION

PhD Student

WORK EXPERIENCE

November 2023 – Present

Ph. D. Course in “Models and Methods for Material and Environmental Sciences”

Department of Chemical and Geological Sciences, Università degli Studi di Modena e Reggio Emilia, 41125 Modena (MO), Italy

Supervisor: Prof. G. Lusvardi

- Project: Development of advanced biomedical devices for hard and soft tissue applications

AY 2022/2023

Master's degree internship in Chemical Sciences

Internship within the research group of Prof. G. Lusvardi, Department of Chemical and Geological Sciences (DSCG), Università degli Studi di Modena e Reggio Emilia, including a 3-months stage with Prof. D. Carta, School of Chemistry and Chemical Engineering, University of Surrey, Guildford (UK).

The experimental work focused on the study of phosphate-based glasses (PGs) for the regeneration of hard and soft tissues and as drug delivery system.

Knowledge learned:

- synthesis of PGs through the sol-gel and coacervation technique
- functionalization and doping of PGs with biomolecules and therapeutic inorganic ions
- synthesis of fibres by electrospinning
- evaluation of PGs solubility by inductively coupled plasma spectrometry (ICP) and microwave plasma atomic emission spectrometry (MP-AES)
- use of advanced characterization techniques such as Raman spectroscopy and BET analysis

AY 2020/2021

Bachelor's degree internship in Chemistry

Internship within the research group of Prof. G. Lusvardi, (DSCG) in collaboration with Prof. A. Zambon (DSCG).

The internship focused on the study of silicate-based mesoporous glasses (MBGs) used for hard tissue regeneration and as drug delivery systems.

Knowledge learned:

- synthesis of silicate-based glasses using the sol-gel-EISA technique
- functionalization with biomolecule
- assessment of bioactivity using the procedure of Anthony L.B. Maçon
- evaluation of the antioxidant properties of MBGs by enzymatic assays
- use of characterization techniques such as elemental analysis (CHNS), powder X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FTIR), scanning microscopy and energy dispersive spectrometry (SEM-EDS)

EDUCATION AND TRAINING

October 2021 – October 2023 **Master's Degree in Chemical Sciences, final grade 110/110 cum laude**

Department of Chemical and Geological Sciences (DSCG), Università degli studi di Modena e Reggio Emilia, Modena.

Master's degree thesis entitled "Functionalization of phosphate glasses by biomolecules: evaluation of bioactivity and antioxidant properties."

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

September 2018 – September 2021 **Bachelor's Degree in Chemistry, final grade 105/110**

Department of Chemical and Geological Sciences (DSCG), Università degli studi di Modena e Reggio Emilia, Modena

Bachelor's degree thesis entitled "Drug delivery systems: studio di vetri bioattivi contenenti biomolecole".

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

September 2013 – June 2018 **Degree in Scientific Studies (Maturità Scientifica), final grade 90/100**

Liceo Scientifico Manfredo Fanti, Carpi, Modena

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B 2	B 2	B 2	B 2	B 2
English Course compulsory for the Master's degree in Chemical Sciences, 2021/2022 academic year					

Communication skills

Good communication skills acquired by tutoring high school students

Computer skills

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

▪ ICDL certificate IT2117509

- Computer essential: this module defines the fundamental concepts and skills for the use of electronic devices, the creation and management of files, networks and data security
- Online essential: this module defines the fundamental concepts and skills necessary for surfing the web, for a methodological efficiency of information research, for online communication and for the use of e-mail
- Word processing: this module defines the fundamental concepts and skills required to use a word processing application for the preparation of simple documents, and provides the foundation for the practical test related to this module
- Spreadsheets: this module defines the fundamental concepts and skills needed to use a spreadsheet application for the preparation of simple spreadsheets and provides the foundation for the practical test related to this module
- Presentation: this module defines the fundamental concepts and skills required to use a presentation application for the preparation of simple presentations, and provides the foundation for the practical test related to this module
- IT Security: this module defines the fundamental concepts and skills to understand the secure use of ICT in daily activities and to use relevant techniques and applications that allow you to manage a secure network connection, use the Internet safely and without risk and adequately manage data and information

Driving licence

B

ADDITIONAL INFORMATION

Course

Intensive English language course – English alive TM