

PERSONAL INFORMATION

Margherita Cescon



📍 Enrico Fermi 9, 41051, Castelnovo Rangone, Italy

☎ +39 3396463638

✉ margherita.cescon.w@gmail.com

Sex F | Date of birth 05/08/1999 | Nationality Italian

PhD student passionate about materials science, eager to contribute to team success through hard work, attention to detail and excellent organizational skills. Motivated to learn and grow.

WORK EXPERIENCE

2020/2021 Internship in the Electrochemistry Research Group

University of Bologna – Bologna (Italy)

- Engaged in research activities to develop innovative BDD Electrochemiluminescent Biosensors and to improve the sensitivity and precision of the analytical measures (Prof. Giovanni Valenti)
- Worked over 200 hours in the laboratory and outside, studying research papers.

2023 Tutoring activity

University of Bologna – Bologna (Italy)

- Worked over 120 hours during my final academic year supporting other students with the preparation of chemistry exams
- Students were coming from different backgrounds (Pharmacy, Pharmaceutical chemistry and technology, Biology, Biotechnology and Genomics) and following different courses (General Chemistry, Inorganic Chemistry, Organic Chemistry (I and II) and others)

2023 Internship in the PPB (Phosphates, Pharmacotechnie, Biomatériaux) Research Group

CIRIMAT (Centre Inter-universitaire de Recherche et d'Ingénierie des Matériaux) – Toulouse (France)

Internship in the Biomaterials Research Group

University of Bologna – Bologna (Italy)

- Participated in a collaborative project between two different research groups and professors (Prof. Christophe Drouet and Prof. Elisa Boanini) thanks to an Erasmus+ scholarship
- Engaged in research activities related to the AIMed project (Antimicrobial Integrated Methodologies) to exploit the antibacterial properties of the enzyme Trypsin and to functionalize different substrates with it (hydroxyapatite nanoparticles with or without added active metallic cations, core-shell nanoparticles and alginate polymeric scaffold)
- Worked over 600 hours in the laboratory and outside, studying research papers.

2023-2025 Tutoring activities for students of Middle school and High school

2024-2025 Swimming Instructor for children, adolescents and adults

Piscine Pergolesi (Modena, Italy)

Polisportiva polivalente Maranello (Maranello, Italy)

EDUCATION AND TRAINING

2018-2021 First Cycle Degree in Chemistry and Materials Chemistry

University of Bologna - Bologna

2021-2023 Second Cycle Degree in Photochemistry and Supramolecular Materials (entirely taught in English)

University of Bologna - Bologna

2023-now Ph.D. Programme in Civil, Environmental and Materials Engineering

University of Modena and Reggio Emilia

Mother tongue

Italian

Other languages

English	Level 8 of IELTS
French	DELTA A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Expert in writing reports (skill acquired during my previous studies and my PhD);
- Good written communication, ability acquired writing for a podcast ("Più di un caffè" on all audio streaming platforms).

Organisational skills

- Very good at managing time and work under short deadlines (obtaining excellent academic results while being an agonistic athlete and working as a tutor while still following courses and taking exams)
- Teamwork skill because of laboratory activities with labmates and being in a sport team
- Cultivating passions and part-time jobs even during my PhD

Job-related skills

- Certificates of Workplace Health and Safety training - all three levels: General, Specific, Security for Student (Specific 2);
- Participated in various curricular laboratory projects regarding various Chemistry fields (Organic, Inorganic, Computational etc.) and Materials Science (Tribological testing, Corrosion testing, Thermal Spray Technologies).
- Ability to collaborate with people coming from different academic backgrounds because of my tutoring activity, internships and Erasmus+ experience

Computer skills

- Excellent command of Microsoft Office™ tools
- Good MathLab and Origin knowledge
- Basic Fortran programming abilities

Other skills

- Good photography ability (I've attended a photography course organized by famous photographer Luigi Ottani)
- Certified FIN (Italian Swimming Federation) Swimming Instructor (with a 10 hours workshop in ABA for sport instructors)

Driving licence

- B

ADDITIONAL INFORMATION

Presentations

- "Boron Doped Diamond for the development of Electrochemiluminescent Biosensors" (my bachelor's degree final thesis)
- "Hydroxyapatite-based materials to trigger the adsorption of Trypsin for antimicrobial activity" (my master's degree final thesis)

Publications

- Co-supervisor of a Master's Thesis titled "Study of the CMAS corrosion and thermal cycle fatigue resistance of TBCs deposited by suspension and solution precursor plasma spraying"
- Co-supervisor of a Master's Thesis titled "Influence of YSZ powder's morphology and microstructure on the superficial roughness of the thermal barrier coatings (TBC)"
- Poster "Thermal Barrier Coatings deposited by Hybrid Suspension+Solution Precursor Plasma Spray: Gadolinium's Role in CMAS and Thermal Cycling Fatigue Resistance" presented at "Navigating a Greener Sky: Symposium on Advances in Thermal Spray and PVD Coatings for the Aerospace Industries" – Awarded First Place in the Student Poster Competition.

Contests

- Shortlisted for two different Projects in the AUFRANDE program (Australia-France Network of Doctoral Excellence)

Conferences

- Workshop "Coatings applications for high-temperature and harsh environments" – Mines Paris, France
- "Navigating a Greener Sky: Symposium on Advances in Thermal Spray and PVD Coatings for the Aerospace Industries" – University of Limoges/TSS/ASM, Limoges

Courses

- "Thick coatings: Plating and Thermal Spraying" – AIM – Politecnico of Milan, Italy
- "Thermal Spraying" – University West, Sweden
- "Tribocorrosion" – AIM – University of Modena and Reggio Emilia

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