



GAIA VICINELLI

CONTACT

 Bologna, Italy

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LANGUAGE

- **English:** B2
- **German:** B1
- **Spanish:** B1

CERTIFICATIONS

- **English First certificate B2** (Cambridge University, 15 Dec 2018 - European Level B2)

- **German Goethe Zertifikat B1** (GOETHE INSTITUT BOLOGNA, 7 May 2018 - European Level B1)

SKILLS

- UV-visible spectrophotometer,, High performance liquid chromatography (HPLC), Infrared spectrophotometry (FTIR-ATR), X-Ray Diffraction (XRD)

- Scientific graph making (Prism), Biorender, Mindthegraph, Excel, Ppt presentations, word
- Independent work management and organization
- Problem solving
- Interpersonal skills

DRIVING LICENCE

Driving licence **B**

EDUCATION AND TRAINING

● **PhD in Materials science and technology - University of Parma** (2024 - *in progress*)

● **Master degree in Biopharmaceuticals, Cosmetics and Nutraceuticals - University of Ferrara** (07/2024)

● **Bachelor's degree in Medical Biotechnology - University of Ferrara** (07/2022)

● **Diploma of Higher Education in Language - Leonardo da Vinci - Casalecchio di Reno, Bologna** (12/2019)

WORK EXPERIENCE

● **PhD student -CNR-ISSMC – Faenza** (11/2024 – *Current*)

- Developed 3D injectable hydrogels that mimic natural extracellular matrix for improved bone tissue modeling.
- Design customizable scaffolds with precise geometries using 3D printing technologies.
- Incorporating bioceramic nanoparticles to enhance scaffold properties and promote regeneration.

● **Biomaterials laboratory intern - Institute of Ceramic Materials Science and Technology – Faenza** (11/2023 - 07/2024)

- Developed multilayer patch devices for wound dressing with antimicrobial properties. - Acquired proficiency in handling laboratory instruments including UV-vis spectrophotometer, lyophilizer, ultrasonic bath, and centrifuge.
- Analyzed experimental data using statistical software to identify trends and anomalies in research outcomes.

● **Chemical laboratory intern - University of Ferrara -** (02/2022 - 03/2022)

- Synthesis of organic molecules; learning purification methods and interpretation of analytical methods: Consolidation of technical and soft skills learned during studies.
- Performed routine laboratory tasks, including cleaning glassware and organizing workspaces, to maintain a functional environment.
- Collaborated with senior scientists to design and implement laboratory tests for research projects.

CONGRESS AND SCHOOL

● **2025 International Summer School BIOMAT- Paris, France** (07/2025)

- Flash talk presentation : *Multilayer antimicrobial biomedical devices for the treatment of chronic wounds: from disinfection to dermal tissue regeneration*

● **34th Annual Conference of the European Society for Biomaterials (ESB) – Turin , Italy** (10/2025)

- Poster presentation

PUBBLICATIONS

From Wound Dressing to Tissue Regeneration: Bilayer Medicated Patches for Personalized Treatments of Chronic Wounds - *ACS Applied Materials & Interfaces* **Article ASAP** – (May 26, 2025)
DOI: 10.1021/acsami.5c06444