



BEATRICE LORENZON

Molecular Biologist

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About Me

Graduate with a Master's degree in Molecular and Applied Biology (Forensic specialization), possessing strong linguistic and communication skills developed throughout my academic training. I am diligent and highly motivated, eager to continuously improve my expertise and deepen my knowledge in the fields of Forensic Biology and Human Genetics.

Languages

Italian C3

English (First FCE) B2/C1

French (Esabac)B2/C1

Experience

Current position: PhD Candidate – University of Florence at LENS (International Doctorate in Atomic and Molecular Photonics)

2023-2026

Advanced laboratory expertise in tissue clearing techniques (SHORT, iDISCO), tissue expansion methods (eMAP), and 3D imaging modalities (SCFM, LSF, CSFM, TPFM). Strong experience in image processing and quantitative analysis, including machine-learning-assisted segmentation and training using Ilastik and QPath. Proven ability in interdisciplinary teamwork, scientific communication.

Master's Thesis Researcher (6 months) – University of Florence, Department of Physics and Astronomy & LENS (European Laboratory for Non-Linear Spectroscopy)

2022-2023

Joint experimental research in Molecular Anthropology and Biophysics. Technical activities included sample preparation, molecular analysis, and interdisciplinary experimental protocols integrating biological (DNA extraction) and biophysical approaches (bone tissue clearing and imaging).

Trainee (4 months) – Center for Osteoarchaeology and Paleontology, University of Insubria (Varese), Physical Anthropology

2022

Technical skills: biological profile reconstruction (sex, age, stature), taphonomic analysis, osteological analysis and identification of human skeletal fragments, forensic-oriented documentation, high-resolution photographic data collection.

Education

Italian State Examination for Licensed Biologist (Section A)

score: 190/200

2023

Master Of Science in Molecular Applied Biology

2020-2022

University of Florence

Master's Degree in Molecular and Applied Biology (Forensic Curriculum) – University of Florence (UniFI).

Thesis in Molecular Anthropology: "3D Histology and DNA Extraction: Development of a Correlative Protocol Applicable in Forensic Investigation Contexts".

Final grade: 110/110 with honours

Bachelor of Science in Biological Sciences

2018-2020

University of Insubria

Bachelor's Degree in Biological Sciences (Biomedical Curriculum) – University of Insubria.

Thesis in Genetics: "Forensic Genetics: Development of Biomolecular Investigation Techniques and New Perspectives".

Final grade: 104/110