

Alessia Barzotti



PHD IN PHYSICS

PROFILE

Physics PhD candidate with experience in materials characterization and applied research developed in close collaboration with industry. Motivated to continuously strengthen technical and professional skills.

EDUCATION

PhD in Physics - University of Bologna, Alma Mater Studiorum / SACMI

November 2023 - Present

PhD scholarship project: Analysis of the microstructure of processed cellulose for sustainable packaging.

Six-month research stay at TU Darmstadt focused on the development and characterization of paper-based barriers against liquid water and water vapor.

MSc in Physics - Materials Physics and Nanoscience, University of Bologna, Alma Mater Studiorum

2021 - 2023

Thesis: Mechanochemistry of multi-element Mg-based complex hydrides for hydrogen storage. Research internship carried out at ICMPE-CNRS, Paris.

Six-month Erasmus study experience at the University of Siegen, Germany.

BSc in Physics - University of Bologna, Alma Mater Studiorum

2018 - 2021

Thesis: Characterization of WO₃ photoanodes by electrochemical impedance spectroscopy and photocurrent transients.

PERSONAL INFORMATION

Born in Urbino on 08/05/1999

Nationality: Italian

Cagli (PU), Italy

+39 339 298 4077

alessiabarzotti@gmail.com

LANGUAGES

Italian - Native

English - C1

French - A2

German - A1

WORK EXPERIENCE

PhD Researcher - University of Bologna / SACMI

October 2023 - Present

Applied research projects developed in collaboration with industry.

Teaching Tutor - Laboratory 1

February 2025 - April 2025

Laboratory on Electrons and Photons - Optical Properties of Semiconductors and Energy Gap Measurement (Course code B4896).

Erasmus Research Intern - ICMPE-CNRS, Paris

May 2023 - July 2023

Project: Mechanochemistry of multi-element Mg-based complex hydrides for hydrogen storage.

Research Intern - Department of Physics, University of Bologna

May 2021 - October 2021