BEATRICE TIBONI

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EDUCATION

Alma Mater Studiorum - University of Bologna — **November 2023 - Current**
PhD Student in Geophysics
Department of Physics and Astronomy "Augusto Righi"
Academic discipline: GEO/10 Solid Earth Geophysics

Alma Mater Studiorum - University of Bologna — **October 2020 - March 2023**
Master's Degree
Geologia e Territorio
Grade: 110L

Curricular Internship - Regione Emilia-Romagna — **May 2022 – September 2022**
Environment sector

University of Urbino Carlo Bo — **September 2017 - September 2020**
Bachelor's Degree
Scienze Geologiche
Grade: 110L

Technical Institute for Surveyors G. Genga (Pesaro) — **September 2013 - June 2017**
Technical Institute Diploma

WORK EXPERIENCE

Geologist-Self-employed at Studio BL di Maurizio Bergozzi — **May 2023 – August 2023**
- Skills: Water sampling, Waste management, Hydrogeology, Geochemistry

LICENSES

Geologist Professional Licence- Section A University of Padova, Italy — **November 2023**

TEACHING AND SCIENTIFIC ACTIVITIES

Teaching tutor in Geophysics Laboratory 2 — **February 2025- June 2025**
Department of Physics and Astronomy "Augusto Righi"

Orientation activities — **April 2025- May 2025**
Tutoring in applied geophysics (seismic methods) for high school students as part of the PLS (Scientific Degrees Plan) in Geology (Brisighella, Ravenna).

Teaching assistant — **May 2024- May 2025**
Assistance in applied geophysics teaching laboratories (seismic, gravimetric, electrical methods) for undergraduate and master's degree students in Geological Sciences (in Italian) and Environmental Engineering (in English).

Teaching assistant — **May 2024**
Assistance in geophysics teaching laboratories (seismic methods) for master's degree students in Earth Physics.

Orientation activities — **May 2024**
Assistance in teaching laboratories for high school students in Viserba, Rimini, on seismic refraction and reflection techniques.

PUBBLICATIONS

1) **Maria Filippini, Stefano Segadelli, Enrico Dinelli, Michele Failoni, Christine Stumpp, Gianluca Vignaroli, Tommaso Casati, Beatrice Tiboni, Alessandro Gargini**, 2024. Hydrogeological assessment of a major spring discharging from a calcarenitic aquifer with implications on resilience to climate change, Science of The Total Environment, 913, 2024, 169770, ISSN 0048 9697,https://doi.org/10.1016/j.scitotenv.2023.169770.ZZ

ABSTRACT IN CONFERENCE

2025

- Tiboni B., Castellaro S., Time-Dependent Variations of f_0 and ΔV/V in 1D and 2D Sedimentary Structures

SSA- 2025, DENVER (CO), USA

- Tiboni B., Castellaro S., Variation over time of the elastic parameters of the soil: natural frequencies and stiffnesses.

GNGTS 43TH EDITION, BOLOGNA, ITALY

- Riccardo Asti, Silvia Castellaro, Selina Bonini, Beatrice Tiboni, Lorenzo Gemignani, Gianluca Vignaroli. Seismic microtremor measurements to constrain the subsurface structure of intermontane basins: the Mugello Basin case study (Northern Apennines, Italy)

EGU-2025,VIENNA

- Asti R., Castellaro S., Bonini S., Tiboni B., Gemignani L. & Vignaroli G. Subsurface structure and tectonic evolution of the Mugello Basin: insights from seismic microtremor measurements, geomorphic analyses and well log data

SGI-2025, PADOVA, ITALY

- Castagner R., Castellaro S., Tiboni B., Study of the continuity of embankment diaphragms with electrical methods.

SAGEEP 2025 , Denver (CO), USA

- Castagner R., Castellaro S., Tiboni B., Study of the continuity of embankment diaphragms with electrical methods.

EAGE Near Surface Geoscience, Naples, ITALY

2024

- Riccardo Asti, Silvia Castellaro, Selina Bonini, Beatrice Tiboni, Giuseppe Ciccarese, Giulio Viola, Gianluca Vignaroli.Structural architecture of the Mugello Basin (Northern Apennines, Italy): insights from seismic microtremor measurements

Workshop RETURN - Bologna, 27-28-29 November 2024

2023

- Filippini M., Casati T. Dinelli E., Stumpp C., Tiboni B., Gargini A. Unraveling the hydrogeological factors behind the high discharge of Nadìa spring (Nothern Apennines) with implications for climate change resilience.

IAH Cape Town 2023

ADDITIONAL INFORMATION

- **Technical Skills:**

  - Programming languages: MATLAB (advanced), Python (intermediate), Rstudio (Intermediate)
  - GIS and CAD software: QGIS (advanced), AutoCAD (intermediate), ArcGIS (Intermediate)
  - Geophysical / seismic software: Grilla, Hevee, SoilSpy, Electra, Seismaiger, Seismodule Controller
  - Office suite: Microsoft Office (Word, Excel, PowerPoint)

- **Languages:** Italian, English.