

EMMA GHINI  
CURRICULUM VITAE

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## CURRENT POSITION

Nov. 2022-on going **Ph.D. student** in Structural Design  
University of Bologna, Bologna, BO, Italy.

## ACADEMIC CAREER

Ago. 2024-Dec.2024 **Visiting Ph.D. student**  
University of California, Berkeley, CA, United States

2023-2024 **Academic tutor** for *Advanced Design of Structures*  
University of Bologna, Italy.

2022-2024 **Academic tutor** for *Structural Design*  
University of Bologna, Italy.

2019 - 2022 **Master's degree in Civil Engineering**  
University of Bologna, Italy.  
*"Numerical modelling of loads and damages for the design of an integrated SHM system for a RFI prestressed concrete railway bridge in Naples"*.

2015-2019 **Bachelor's degree in Civil Engineering**  
University of Bologna, Italy.  
*"Analisi di una rete integrata per il controllo del Ponte della Costituzione a Venezia"*.

## RESEARCH WORK

Current Currently working on Structural Health Monitoring (SHM) of bridges and cultural heritage monuments, specifically on the integration of damage modeling and automated data interpretation procedures in long-term continuous monitoring systems.

Parallel activities Conceptual Structural Design / Large scale structures / WAAM technology applications in Construction.

Previous Managing Engineering and Construction Process / Mechanics of Historical Masonry Structures / Structural Strengthening and Rehabilitation / Advanced Design of Structures and Bridge Design

## AWARDS

2023 *Start Cup Emilia-Romagna - ECOSISTER, final stage - Special Mention for Female Entrepreneurship with ECOPOLE3D project*

## WORKING EXPERIENCES

Sailing-Skipper / Photography director / Professional ballet dancer

## SKILLS

**Structural analysis**  
Strand7 ●●●●●  
SAP2000 ●●●●●  
Midas ●●●●○  
3DEC ●●●○○  
Abaqus ●●○○○

**Design**  
Autocad ●●●●●  
Revit ●●●●●  
Rhyno & Grasshopper ●●●●○  
All Plan ●●○○○

**Coding**  
Matlab ●●●●●  
Python ●●●○○

## INTERNSHIP

Structural Modeling  
ARCHINGEGNO  
Verona, Italy  
August, 2022 (1 month)

## CERTIFICATIONS

English IELTS - Academic C1 (2019)  
French CLA Certificate B1 (2020)

  
June 10<sup>th</sup> 2025, Bologna