

POSTDOC RESEARCHER

# Martina Diaz.



Proactive, excited to learn new digital technologies, enthusiastic about project participation, and passionate about qualitative and quantitative analysis. Fast learner and comfortable switching between working independently and collaborating with a team. Eager to foster collaborative environments and support team-building activities.

## Experience

NOV 2022-PRESENT

*Chair for Architectural Heritage and Sustainability, ETHZ, CH*

### POSTDOCTORAL RESEARCHER

Postdoctoral research and coordination of a digital archive project on Western African traditional architecture.

- Mediation between working teams and computer scientists.
- Experimentation for a graph database sub-project.
- Research on APIs and open standards for digital images.
- Preparation of scientific publications.
- Preparation of didactic material.

*Photogrammetry Education Constructions Institute (PHEDCS), CZ*

### LECTURER

Lecturer at the school on documentation of cultural heritage for students and professionals.

- Summer school organization.
- Teaching photogrammetry theory and practice.
- Teaching laser scanning theory and practice.
- Teaching point cloud post-processing.
- Teaching 3D modeling.

*RE-WIN Basel, CH*

### VOLUNTEER

Practice and online support for the international project to send salvaged windows from demolition worksites in Switzerland to rebuilt houses in Ukraine.

- Windows measurements.
- Website content uploading.
- GIS map for delivered windows.

SEP 2023

JUL 2022-NOV 2022

CONTACT

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EDUCATION

2018-2022

Dr. Sc. in Building  
Archaeology  
ETHZ, CH

2009-2015

BSc and MSc Architecture,  
Restoration  
University of Cagliari, IT

CERTIFICATIONS

PRESENT

- Python for Data Science. IBM-Coursera

PRESENT

- Collegial coaching. ETHZ, CH

2023

- Tools for Data Science. IBM-Coursera

2023

- Research Data Management - Basics and how to apply them. ETHZ, CH
- Research Data Management - Data management planning. ETHZ, CH

2022

- Project Management for Research. ETHZ, CH

2019

- School on digital survey techniques. KAIST, ROK

2018

- School on digital survey techniques. POLIMI, IT

2017

- Geomatics & Restoration Preliminary Workshop. AUTECH, SIRA, IGMI, IT

TECHNICAL SKILLS

- QGIS
- Adobe InDesign & Photoshop
- MSOffice
- Metahsape
- Cyclone Hexagon
- Cloud Compare
- Arena 4D
- Python (beginner)
- Cypher (beginner)
- IIF (beginner)

# Experience Continued

JUL 2017-APR 2022

*Chair of Building Archaeology and Construction History, ETHZ, CH*

## TEACHING ASSISTANT

Activity with students, support for lectures, and participation in departmental activities.

- Frontal lectures and preparation of didactic materials.
- Support for digital technologies for surveys and data post-processing.
- Preparation of seminar week abroad for students.
- Representative of the Assistants Association of the Architecture Department (AAA) in the Department Conference and Teaching Commission.

2016-2017

*Chair for Restoration, University of Cagliari, IT*

## RESEARCH ASSISTANT

Research on adaptive-reuse of former historical prisons in Sardinia.

- Research on traditional building practices.
- Geomatics studies.
- Preparation of educational material.

2016  
JAN-AUG

*Municipality of Cagliari, IT*

## APPRENTICESHIP IN RESTORATION GUIDELINES

Planning and developing new regulations for the restorations in the Historic City Center.

- Research on traditional building practices.
- Creation of documentation for different stakeholders (practionners and estate owners).
- Layout design for digital documentation.

2015  
MAR-JUL

*Property and Patrimony Office for Sardinia Region, IT*

## PRACTICUM IN PUBLIC ESTATE MANAGEMENT

Project for evaluation of dismissed state properties.

- Data management.
- Database maintenance.
- Preparation of public documentation.

## ORGANIZATIONS

2018-

**AAA, ETHZ**

2021-

**CONSTRUCTION HISTORY SOCIETY**

## AWARDS & HONORS

2021

**BEST PAPER AWARD**

7th International Conference on Construction History.

2016

**RESEARCH FELLOWSHIP**

University of Cagliari.

2015

**BEST GRADUATED STUDENT**

University of Cagliari.

## LANGUAGES

Italian mother tongue

English



German



French



## HOBBIES

- Gardening
- Reading
- Learning electric saxophone
- Cycling
- Hiking
- Dancing

# References

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