

## Alessandro Bombini, Ph.D. Technological & Scientific Researcher 10/07/1991

Theoretical Physicist by formation, I work as a Researcher at the INFN in the network devoted to the application of nuclear techniques to Cultural Heritage, where I am responsible for the research and development of digital infrastructure and web-services.

I am the creator and responsible of Software Development of the Artificial Intelligence for digital REStoration of Cultural Heritage (AIRES-CH) Project.

I am the PI for the ICSC Flagpship 2.6.1 Fast Extended Computer Vision.

alessandro.bombini.fi@gmail.com

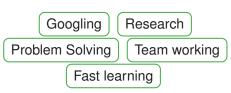
(id) 0000-0001-7225-3355

Experiences

Tecnologo

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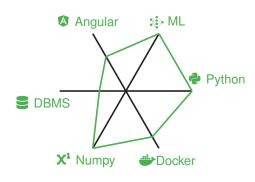
## Soft Skills



## Technical Skills -

- Python, JavaScript
- Numpy, Scipy, SKLearn, SymPy
- Docker
- Bash
- Neo4j, MongoDB
- Flask, FastApi
- Angular
- 15 TF, Keras, Optuna, PyTorch

#### Spider



## Other skills

Italian	
English	
French	

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## Responsible for the digital development of the AIRES-CH project, offering a web service for AI-based digital restoration of cultural heritage employing nuclear physics-based imaging raw data. Scientific Researcher 2022-2023 Responsible for the research and development of Information and Communication Technologies (ICTs) for the CHNet Cloud in the INFN-CHNet Digital Laboratory. **Technological Researcher** 2020-2022 Lead developer of the Web services appearing in the CHNet cloud, in charge of

Associate to ICSC; PI for Flaghsip 2.6.1. Fast Extended Computer Vision.

devising, writing, and deploying them on the cloud, in an integrated, up-to-date environment. Contributes to the development of Desktop software for the radioprotection system at the Tandetron facility at LABEC, Florence.

### **Full Stack Developer**

PIN. Prato Development and upgrade of a web interface and related server service for assisted generation of data and metadata.

### **Research Assistant**

2019 Stockholm University

Università di Firenze

Researcher in conformal field theories and black hole physics in string theory.

## (Education)

# Ph.D. in Physics

## 2019

2016

2013

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2023-5

INFN

INFN

INFN

2020

Università di Padova Conducted research in the topic of Theoretical High Energy Physics. Thesis titled "Black hole microstates and the information paradox". Final mark: Excellent.

## M.Sc. in Physics and Astrophysics

Thesis title: "Symmetries on black hole horizon" (Class LM-17). Final mark: 110 cum laude/110

## **B.Sc. in Physics and Astrophysics**

Università di Firenze Thesis title: "Perturbative method in Quantum Mechanics" (Class L-30). Final mark: 110 cum laude/110

## Activities