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.

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iD 0000-0001-7225-3355   in Alessandro Bombini

Soft Skills

Googling   Research   Problem Solving   Team working   Fast learning

Technical Skills

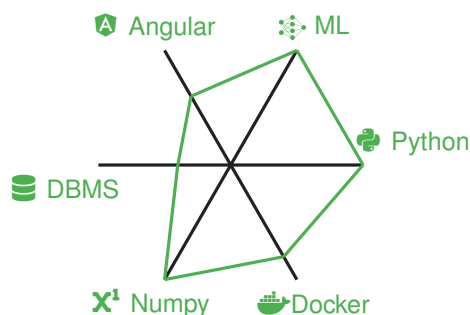- `</>` Python, JavaScript
- x^1 Numpy, Scipy, SKLearn, SymPy
- Docker
- Bash
- Neo4j, MongoDB
- Flask, FastApi
- Angular
- TF, Keras, Optuna, PyTorch

Spider

Angular · ML · Python · Docker · Numpy · DBMS

Other skills

Language	Level
Italian	◎ ◎ ◎ ◎ ◎
English	◎ ◎ ◎ ◎
French	◎

Experiences

Technologist
2023-↺
INFN & ICSC

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

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
INFN

Lead developer of the Web services appearing in the CHNet cloud, in charge of 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.

Research Assistant
2019
Stockholm University

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

Appointments

Independent Expert
2024-↺
European Innovation Council and SMEs Executive Agency (EISMEA)

I am an Independent Expert for the European Innovation Council and SMEs Executive Agency (EISMEA);

Independent Expert
2023-↺
EU Research Executive Agency (REA)

I am an Independent Expert for the Research Executive Agency;

Education

Ph.D. in Physics
2019
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
2016
Università di Firenze

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