

# Stefano Martire

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## EDUCATION

### PhD in Data Science and Computation

2020 - 2024

*Italian Institute of Technology*

- Design and trained a neural network potential on 10M molecules reaching production accuracy;
- Supervised by Andrea Cavalli and Sergio Decherchi.

### BSc and MSc in Mathematics

2015 - 2020

*Università Cattolica del Sacro Cuore*

## PROFESSIONAL EXPERIENCE

### AI Scientist

2024 -

*Digitiamo*

- Product driven R&D.

## PUBLICATIONS

### OBIWAN: An Element-Wise Scalable FF Neural Network Potential

2024

*The quantum chemistry AI method resulting from my PhD studies.*

*J. Chem. Theory Comput.*

### Ipotesi di Sintesi dell'Intelligenza

2023

*Essay containing my vision and perspectives on the problem of artificial general intelligence.*

*Edizioni Altravista*

### Salendo su un foglio di carta

2020

*Divulgative mathematical book, co-authored with professor Alfredo Marzocchi.*

*Aracne editrice*

## IT SKILLS

**Backend:** Python, SQL, C, bash, FastAPI

**Frontend:** Javascript, HTML, CSS

**MLOps:** TensorFlow, PyTorch, JAX, pandas, NumPy, Matplotlib, scikit-learn

**DevOps:** Git, Docker, Singularity, conda

## PERSONAL PROJECTS

### Lombacovid

2020

[lombacovid.it](http://lombacovid.it)

- Established a periodic pulling from the national repository of Covid-19 clinical data in order to maintain a personal database;
- Visualised and served the aforesaid db to 5k distinct users (29k visits in total).

### LearningCurves

2023

[learningcurves.xyz](http://learningcurves.xyz)

- Developed a privacy-preserving online tool that compares the performances of machine learning models.