

Stefano Martire

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EDUCATION

PhD in Data Science and Computation

Italian Institute of Technology

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

Present
Genova, IT

BSc and MSc in Mathematics

Università Cattolica del Sacro Cuore

2020
Brescia, IT

PUBLICATIONS

OBIWAN: An Element-Wise Scalable FF Neural Network Potential

The quantum chemistry AI method resulting from my PhD studies.

J. Chem. Theory Comput.

2024

Ipotesi di Sintesi dell'Intelligenza

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

Edizioni Altravista

2023

Salendo su un foglio di carta

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

Aracne editrice

2020

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

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).

2020

LearningCurves

learningcurves.xyz

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

2023

PROFESSIONAL EXPERIENCE

Peer reviewer

Hindawi

- Peer reviewer for the Hindawi scientific publisher, specialised in theoretical and applied machine and deep learning.

2020 - 2021

Student representative

Università Cattolica del Sacro Cuore

- Two times in-a-row elected student representative of the Mathematics, Physics and Natural Sciences Department;
- Represented students in the board of directors of the faculty and being member of various administration groups.

2016 - 2020

Brescia, IT