

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

- 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

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