



Giorgio Carbone

Milan (MI), Italy

Born in Como on May 13, 1997

Driver's license: B, with own car

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🐙 [github/giocoal](https://github.com/giocoal) | 🔗 [linkedin/giorgiocarbone](https://www.linkedin.com/in/giorgiocarbone) | 📁 [Portfolio](#) | 🏠 [Google Scholar](#)

Experience

Eindhoven University of Technology (TU/e) – Molecular ML Laboratory

Eindhoven, Netherlands

Visiting PhD Researcher - Physics-Informed *De Novo* Drug Design - Full time

Oct. 2025 – Today

Generative AI, Geometric Deep Learning, 3D De Novo Ligand Design, Physics-Informed ML

University of Milano-Bicocca & ITALFARMACO S.p.A

Milan (MI), Italy

PhD Student - Physics-Informed Structure-Based *De Novo* Drug Design - Full time

Nov. 2024 – Today

Generative AI, Geometric Deep Learning, Structure-Based Drug Design, Physics-Informed ML

ITALFARMACO S.p.A – New Drug Incubator (NDI)

Cinisello Balsamo (MI), Italy

Research Internship - New Drug Incubator (NDI) - Full time - [Poster](#)

May 2024 – Oct. 2024

CADD Pipelines, Generative Chemistry, Multi-Objective Optimization, In Silico Ligand Prioritization

University of Milano-Bicocca - Imaging and Vision Laboratory (IVL)

Milan (MI), Italy

Research Internship - Imaging and Vision Laboratory (IVL) - Full time - [GitHub](#)

Feb. 2023 – July 2023

Deep Learning, Computer Vision, Neural Encoding Models, Visual Neuroscience, PyTorch

University of Milano-Bicocca – Computational Physical Chemistry Laboratory

Milan (MI), Italy

Research Internship - Computational Physical Chemistry Laboratory - Full time - [GitHub](#)

Oct. 2019 – Jan. 2020

Computational Chemistry, Molecular Dynamics, Python, Scientific Data Pipelines, Machine Learning

Education

University of Milano-Bicocca & ITALFARMACO S.p.A

Milan (MI), Italy

PHD STUDENT IN CHEMICAL, GEOLOGICAL, AND ENVIRONMENTAL SCIENCES

Nov. 2024 – Today

- The scholarship is fully funded by ITALFARMACO S.p.A. as part of the project "Structure-based *De Novo* Drug Design Using Deep 3D Generative Models for the Discovery of Novel and Selective Ligands".

University of Milano-Bicocca

Milan (MI), Italy

MASTER'S DEGREE IN DATA SCIENCE (LM91)

Sept. 2021 – March 2024

- Graduation grade: 110/110 cum laude.

University of Milano-Bicocca

Milan (MI), Italy

BACHELOR'S DEGREE IN CHEMICAL SCIENCES AND TECHNOLOGIES (L-27)

Sept. 2016 – Oct. 2020

- Graduation grade: 110/110 cum laude.

Istituto Superiore G. Terragni

Olgiate Comasco (CO), Italy

SCIENTIFIC HIGH SCHOOL WITH APPLIED SCIENCES OPTION

Sept. 2011 – July 2016

- Final grade: 91/100.

Publications

Carbone G, Manenti A, Cosentino U, Sandrone G, Greco C, Rovelli G. **An Open-Source AI-Driven Pipeline for Structure-Based *De Novo* Drug Design and Ligand Prioritization: ITForge**. Poster presented at: 29th National Meeting on Medicinal Chemistry (*NMMC 2025*). September 28, 2025. Parma (IT). <https://doi.org/10.5281/zenodo.15880301>

Rizza F, Rovalletti A, Carbone G, Miyake T, Greco C, Cosentino U. **Theoretical Investigation of Inorganic Particulate Matter: The Case of Water Adsorption on a NaCl Particle Model Studied Using Grand Canonical Monte Carlo Simulations**. *Inorganics*. 2023; 11(11):421. <https://doi.org/10.3390/inorganics11110421>