UMBERTO DI LAUDO

Data Scientist | PhD in AI & Data Science

umbertodilaudo@gmail.com +39 3289173372 Umberto Di Laudo udilaudo Trieste, Italy

TECHNICAL SKILLS

- Programming: Python (PyTorch, scikit-learn, pandas, numpy), C++, SQL
- ML/AI: Deep Learning, Computer Vision, Graph Neural Networks, Physics-Informed Neural Networks (PINNs)
- Tools: Git, GitHub, GitLab, Jupyter

PROFESSIONAL EXPERIENCE

PhD researcher in AI & Data Science

University of Trieste, Italy

Nov 2022 – Jan 2026 Trieste, Italy

- Developed and implemented ML/DL models for GIS-based marine seabed data analysis, including image classification and segmentation.
- Built Physics-Informed Neural Networks (PINNs) to solve complex differential equations.
- Visiting researcher at Adolfo Ibáñez University (Chile, Sep-Dec 2025) studying Graph Neural Networks expressivity.
- Technologies: Python, PyTorch, scikit-learn, Rasterio, Git.

Data Analyst

DecHit S.p.A., Italy

Mar - Jun 2022 Milano (remote)

- Analyzed structured business data using SQL.
- Collaborated remotely with technical and business stakeholders.

EDUCATION

PhD in Data Science & Artificial Intelligence

University of Trieste, Italy

Nov 2022 – Jan 2026 Trieste, Italy

Master degree in Theoretical Physics

Alma Mater Studiorum - University of Bologna, Italy

Sep 2019 - Feb 2022 Bologna, Italy

- Grade 110/110 - Weighted avg 29,58/30
- Thesis title: Deconfined Quantum Criticality

Bachelor degree in Physics

Alma Mater Studiorum - University of Bologna, Italy

Sep 2016 - Sep 2019 Bologna, Italy

- Grade 110/110 - Weighted avg 28,02/30
- Thesis title: Statistica Frazionaria e Anioni

PUBLICATIONS & CONFERENCES

- U. Di Laudo, et al., *Machine Learning for Automated Seabed Mapping*, in *Ital-IA 2024 – Thematic Workshops*, *CEUR Workshop Proceedings*, vol. 3762, 2024. URL: https://hdl.handle.net/11368/3118040

LANGUAGES

- **Italian**: Native
- **English**: Professional working proficiency