

# UMBERTO DI LAUDO

PhD student in Applied Data Science and Artificial Intelligence (ADSAI)  
Physicist



## CURRENT POSITION

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PhD student in ADSAI

**University of Trieste, Italy**

📅 Nov 2022 - Present

📍 Trieste, Italy

- Field of study: Machine learning, Deep learning
- Research topics: Machine learning and Deep learning techniques for geosciences. In particular image classification and segmentation of marine seabed using GIS data.
- Supervisors: Luca Manzoni, Silvia Ceramicola

## EDUCATION

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Master degree in Physics

**Alma Mater Studiorum - University of Bologna, Italy**

📅 Sep 2019 - Feb 2022

📍 Bologna, Italy

- Curriculum Theoretical Physics (fully taught in English)
- Grade 110/110 - Weighted avg 29,58/30
- Thesis title: Deconfined quantum criticality
- Field of study: Quantum many-body theory, Quantum mechanics, Monte Carlo method
- Supervisor: Elisa Ercolessi

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Bachelor degree in Physics

**Alma Mater Studiorum - University of Bologna, Italy**

📅 Sep 2016 - Sep 2019

📍 Bologna, Italy

- Curriculum Physics
- Grade 110/110 - Weighted avg 28,02/30
- Thesis title: Statistica Frazionaria e Anioni
- Field of study: Quantum mechanics, Statistical mechanics
- Supervisor: Elisa Ercolessi

## SCHOOLS & CONFERENCES

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- DeepLearn 2023 Summer School,  
17/07/2023 - 21/07/2023,  
Las Palmas de Gran Canaria, Spain
- T4E Doctoral Symposium,  
11/05/2023 - 12/05/2023,  
Alicante, Spain

## WORK EXPERIENCES

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Data Analyst

**DecHit S.p.A., Italy**

📅 Mar - Jun 2022

📍 Milano (remote)

Tutor

**Liceo Scientifico Galileo Galilei, Trieste**

📅 Feb 2022

📍 Trieste, Italy

- Tutor activity in Machine Learning classification techniques for high-school students

## PUBLICATIONS

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- Machine Learning methods for the Atmosphere, the Ocean, and the Seabed  
V. Blasone, U. Di Laudo, G. Pietropoli, L. Bortolussi, S. Ceramicola, G. Cossarini, L. Manzoni  
Conference proceedings, Ital-IA 2023

## PROGRAMMING SKILLS

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- Python (In particular: Pytorch, Scikit-learn):
  - Data Science
  - Machine Learning
- c++ , SQL (intermediate level)
- Version control - Git, Github, GitLab

## LANGUAGES

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Italian  
English

