UMBERTO SALVIATI

Computer Engineering and PhD student

Contact

Recently graduated from a Master in Computer Engineering with a focus on **Deep Learning** and AI. I have always been driven by a passion for exploring the intersection of technology and **creativity**. In addition to my academic pursuits, I find joy in outdoor sports, particularly rugby, which has been a significant part of my life.

- 📅 May 21, 2000
- ☎ +39 *** *** ** **
- @ u.salviati@gmail.com
- 📍 Vicenza, 36100, Italy
- 🌐 GitHub

Digital Skills

- C, C++, Java
- Python (PyTorch, Pandas ...)
- Spark Apache
- GO, MiniZinc, Kotlin
- Git, Linux, SQL
- LTSpice, MATLAB, ROS
- Hugginface, LangChain
- NLP(Gensim, ...)

Language

- English (Advanced)
- Italian (Native)

Education

PhD Student - Robust AI
University of Padua   2025- current
Brain Mind and Computer Science - Cybersecurity
Theme : Robust AI
Supervisor: Prof. Conti Mauro

Master Degree in Computer Engineering
University of Padua   2022 - 2024
Curriculum: AI and Robotics
Final grade : *108/110*
Master Thesis : *Autonomous Driving on Mars : From Dataset To Models - A deep Learning on Martian Imagery*
Supervisor: Prof. Loris Nanni

Erasmus + Barcelona *exchange semester*
Universitat Politècnica de Catalunya (FIB)   09/2023 - 01/2024
Main Courses attended: AI, Intelligent Decision Support System, Statistical Analisis of Networks

Bachelor's degree in Computer Engineering
University of Padua   2019 - 2022
Final grade : *102/110*
Thesis : *Comparison of compression methods for efficient data storage for bioinformatics - Prof. Comin Matteo*

Experience

Theaching Assistant
University of Padua - DM - Cybercicurity   Nov 2024 -
Assistant Professor at Math Department - Cybersecurity course

Researcher Training
University of Padua - Intern, Deep Learning   Mar - June 2024
The Research Training aim is to acquire a deeper studying autonomy and literature analysis on frontier topics.
Topic : *Segment Anything Model (SAM) and Autonomous Driving on Mars*

- *Acquire information on SAM in the context of concealed object imaging by using state-of-the-art procedures to address and overcome its main weaknesses.*
- *The autonomous driving on Mars project started from NASA datasets. We developed methods to improve the data labeling and tested new models and techniques by applying unsupervised methods and evaluating new architectures.*

Data Collection Assistant
Acquaprogram srl.   2019
Data Collection Assistant for Aquatic Environment Assessment

Other activities:
Extracurricular
- Video Tecnician
- Lifeguar certificate and trainee
- Voluntary experiences with Scout, and Arsenale della Pace
- Scrutineer at Comune di Vicenza
- Private lessons - Math and Physics
- Multiple Study Trip in UK (Dover,Manchester, London)

Projects

Master Thesis

Last Project

The aim of this project was to develop Deep Learning models adhering to Mars Rover constraints.

Other Projects

AI, Deep Learning, Computer Vision, Big Data Computing, Intelligent Robotics and Machine Learning

 Link : GitHub