

MATTEO LUGLI

AI Engineering Student, CS Teacher

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Carpi(MO)

theelandor.github.io/about

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EXPERIENCE

Research Fellow

UNIMORE

April 2023 – February 2024

Modena, IT

- Worked as a researcher during my bachelor's internship
- Applied Reinforcement Learning to autonomous vehicle coordination
- Co-authored a scientific paper for a journal available at <https://www.mdpi.com/1424-8220/24/4/1288>

Computer Science teacher

Liceo R. Corso High School

Currently employed

Correggio, RE

- Working as a part-time computer science teacher
- The main focus of my course is making students practice problem solving through programming puzzles and contests
- Developing the ability of breaking down complex concepts to explain clearly

Erasmus + Internship participant

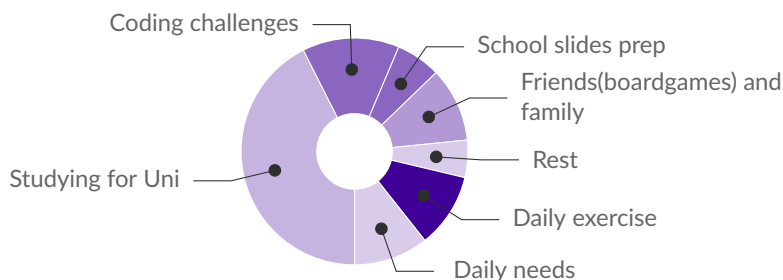
Partnership International

Jul 2019 – Aug 2019

Cork, IE

- Worked as a shop assistant for about 1 month
- Developed great communication skills
- Worked with colleagues from different countries, came in touch with different cultures

A DAY OF MY LIFE



PUBLICATIONS

Journal Article

- Cabri, G.; Lugli, M.; Montangero, M.; Muzzini, F. Learn to Bet: Using Reinforcement Learning to Improve Vehicle Bids in Auction-Based Smart Intersections. Sensors 2024, 24, 1288. <https://doi.org/10.3390/s24041288>

PROJECTS



Traffic Simulator

Code used during for my thesis experiments. Reinforcement Learning algorithm coded on top of a open-source simulator.



TwOR, Twitter Opinion Retrieval

Open source project, great team work experience. Written in Python using whoosh and roBERTa.



Kaleidoscope Compiler

Open source project, made with C++, bison, flex and llvm.



Personal Website

Website that I use to manage a blog, upload university notes and teaching material. Made to help other students, maintained using only emacs, orgmode and github pages.

TECHNICAL SKILLS

Python

Tensorflow

PyTorch

Operating Systems

Emacs

Bash

C++

Java

CSS

HTML

Django

Algorithms

DL&ML

LANGUAGES

Italian
English (B2)



EDUCATION

Artificial Intelligence Engineering

UNIMORE

Enrolled

B.S. in Computer Science (110 cum Laude)

UNIMORE

Sept 2020 – Oct 2023

Scientific Diploma 100/100

Liceo R. Corso High School

2020