

# Lorenzo Fezza

COMPUTER ENGINEER · ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS

Turin (IT)

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## Summary

Currently holding a research scholarship at DAUIN (Politecnico di Torino) aimed at studying specific mechanisms capable of guaranteeing the reliability and security of complex systems based on Artificial Intelligence algorithms (with a focus on Image Segmentation). I have recently completed my master's degree in Computer Engineering LM-32 (DM270) with experience in the field of applied Artificial Intelligence in Computer Vision and Robotics, very versatile and open to software development and research.

## Education

### Politecnico Di Torino (PoliTo)

Turin, Italy

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Oct. 2019 - Jul. 2022

- Got EDISU Scholarships, including accommodation service, to support all university expenses
- Learned Basic Computer Engineering skills

### PoliTo

Turin, Italy

M.S. IN COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS)

Sep. 2022 - Apr. 2025

- Got EDISU Scholarships, including accommodation service, to support all university expenses
- Executed individual and group projects for the development of team working and problem solving skills
- Deepened and applied knowledge regarding Computer Architectures, Artificial Intelligence in different fields (Computer Vision, Robotics, Reliability), Front-end and Back-end coding for Web and Mobile (Android) applications, Network management and Security

## Projects

### EZWallet

Turin, Italy

GROUP PROJECT AT POLITO

Apr. 2023 - Jul. 2023

- Web application to keep track of expenses
- Requirements selection, project estimations and prototypes
- Software development and final application testing
- Javascript programming and Software development skills

### Screenshot Multi-platform Application

Turin, Italy

GROUP PROJECT AT POLITO

May. 2023 - Jul. 2023

- Software and graphical user interface development
- Rust programming

### Real Time Domain Adaptation For Semantic Segmentation

Turin, Italy

GROUP PROJECT AT POLITO

May. 2023 - Jul. 2023

- Transfer learning from synthetic GTA5 images to the Cityscapes
- Data augmentation techniques
- Domain adaptation techniques

### Exploring Sim-to-Real Transfer with Domain Randomization

Turin, Italy

INDIVIDUAL PROJECT AT POLITO

Jan. 2024 - Feb. 2024

- Simulation of a sim-to-real transfer task
- Simulation via Robot Operating System (ROS) and MuJoCo
- Hopper (from MuJoCo) training with PPO and SAC algorithms
- Domain Randomization to overcome the domain shift

### Computational Intelligence

Turin, Italy

INDIVIDUAL PROJECT AT POLITO

Jan. 2024 - Feb. 2024

- Evolutionary strategies, genetic algorithms, adversarial search and reinforcement learning techniques applied on many different tasks
- Agent trained with different techniques to solve the Quixo game

### Team Management Android Application

Turin, Italy

GROUP PROJECT AT POLITO

Mar. 2024 - Jul. 2024

- Android application developed in Kotlin
- Requirements selection, project estimations and prototypes
- Login, QR code, integrated camera, animations, data persistency

# Extracurricular Activity

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## Volunteering for people with disabilities

*Pescara, Italy*

ACTIVITIES MANAGEMENT AND ORGANIZATION

*Jul. 2017 - Jul. 2020*

- Organized of one-week summer camps for youth and adults with mental and physical disabilities
- Executed the organized activities
- Supervised participants

## IEEE-HKN

*Turin, Italy*

SOCIAL MEDIA MANAGEMENT TEAM MEMBER

*Mar. 2023 - Mar. 2025*

- Produced multimedia contents to advertise the association and the organized activities
- Attended professional activities, aimed at internal development

## Erasmus +

*La Coruña, Spain*

CULTURAL INSTITUTION BUSINESS CONSULTANT

*Sep. 2018*

- Identified museum vulnerabilities
- Designed museum events
- Improved English and Spanish knowledge
- Explored a new culture