Elisabetta Fedele

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EDUCATION

ETH Zürich — Sep. 2021 – present
Master in Computer Science — *Zürich, Switzerland*
- Major in **Theoretical Computer Science** and Minor in **Machine Intelligence**

Politecnico di Milano — Sep. 2018 – June 2021
Bachelor in Computer Systems Engineering — *Milan, Italy*
- **Final mark**: 110/110 cum laude
- **Awards**: Merit Based Scholarship 2020/2021, Best Freshmen Prize 2019, Scholarship for Sports Merit 2019

EXPERIENCE

Summer@EPFL — Jul. 2023 – Sep. 2023
EPFL — *Lausanne, Switzerland*
- Summer internship in the CompSec group led by Alessandro Chiesahttps://app.gomry.co/form/E5IHy6LqGJP8XkYM4JDL

Semester project — Feb. 2023 – June 2023
Google Research Zürich — *Zürich, Switzerland*
- Semester project on Open-Vocabulary 3D Scene Understanding
- Co-supervised by Federico Tombari, Francis Engelmann and Marc Pollefeys

Teaching Assistant — Feb. 2023 – June 2023
ETH Zürich — *Zürich, Switzerland*
- In charge of writing the Lecture Notes for the Machine Perception course

Research Assistant — Oct. 2020 – Mar. 2021
Research Collaboration with data-driven Genomic Computing group at Politecnico di Milano — *Milan, Italy*
- Processing of data on SARS-CoV2 viral sequences mutations on nucleotides and amino acids levels (Python)

Teaching Assistant — Sept. 2020 – Jan. 2021
Politecnico di Milano — *Milan, Italy*
- Tutoring an undergraduate class of 250 students during the laboratory of *Fundamentals of Computer Science*

SELECTED PROJECTS

Project on Diffusion Models for Image Generation | *Python* — Mar. 2023 – Jun. 2023
- Group project for the Generative Visual Model seminar. We modified the Attention block of the Latent Diffusion model UNets managing to integrate users' personal preferences in the process of image generation.

Project in Sentiment Analysis | *Python* — Jun. 2022 – Jul. 2022
- Research Project on sentiment analysis of tweets to analyze performance of BERTweet, LSTM on Word2Vec embeddings and FastText. Finetuning BERTweet we achieved an accuracy of 92.04% .

Project in 3D Human Pose and Shape Estimation from RGB Images | *Python* — Apr. 2022 – Jun. 2022
- Project on 3D pose estimation, implementation of a modified version of PARE in PyTorch, with a HR-NetV32 backbone. Our final model achieved an error of 57.5 PA-MPJPE.

LANGUAGES

Italian (Native), **English** (Fluent - 8 IELTS), **French** (A2), **German** (A2)

EXTRACURRICULAR ACTIVITIES

Sailing — Jun. 2006 – Jul. 2019
Professional Optimist and 420 sailor — *Cagliari/Mandello del Lario, Italy*
- Member of the **Italian Sailing Team** from 2012 to 2019
- Competed in 6 World Championships and in 4 European Championships

Sailing instructor — May 2022 - Present
FIV (Italian Sailing Federation) Sailing Instructor Diploma - Level I — *Dongo, Lake Como Italy*