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**
- **Relevant Courses**: Algorithmic Game Theory, Algorithms Lab, Randomized Algorithms and Probabilistic Methods, Graph Theory, Computational Intelligence Lab, Generative Visual Models, Advanced Machine Learning, Machine Perception, Computer Graphics, Computer Vision, NLP

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

Research Intern   Jul. 2023 – Sep. 2023
EPFL   *Lausanne, Switzerland*
- Summer internship in the group of Alessandro Chiesa with the Summer@EPFL program

Semester project   Feb. 2023 – June 2023
Google Research Zürich   *Zürich, Switzerland*
- Semester project in 3D Scene Understanding supervised by Federico Tombari and Francis Engelmann

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 Open-Vocabulary 3D Scene Understanding | *Python*   Mar. 2023 – Jun. 2023
- Semester project on Open-Vocabulary 3D Scene Understanding. We leveraged the capabilities of CLIP to extend the task of 3D instance segmentation to an Open-Vocabulary setting.

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*