



Samuele Pasini

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## SUMMARY

I am Samuele Pasini and I am a PhD researcher in USI Lugano. I am graduated at Politecnico di Milano, Master's degree in Computer Science and Engineering, where I specialized myself into AI and Deep Learning, combining scientific research to a large amount of practical projects. I have done my Thesis in the context of Illegal Landfills Detection, applying Computer Vision techniques in the field of Remote Sensing. After the graduation, I worked as Computer Vision Engineer for Mindearth, a Swiss company that operates in a wide range of sectors combining street-level and remote sensing imagery. After one year, I decided to start my PhD in USI Lugano. My research is related to Deep Learning and LLMs, with a specific focus on Adversarial/Poisoning attacks and the usage of LLMs for code generation.

## EDUCATION

### USI - UNIVERSITÀ DELLA SVIZZERA ITALIANA

2024 - now

PHD

• Deep Learning • LLM • NLP • Secure Code Generation

### POLITECNICO DI MILANO

2017-2022

BACHELOR'S AND MASTER'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING

• Artificial Intelligence • Deep Learning • Computer Vision • NLP

### IIS JEAN MONNET

2012-2017

COMPUTER SCIENCE

## EXPERIENCE

### USI - UNIVERSITÀ DELLA SVIZZERA ITALIANA

2024 - now

RESEARCHER AND TEACHING ASSISTANT

### MINDEARTH

2023 - 2024

COMPUTER VISION ENGINEER

## PROJECTS AND PUBLICATIONS

### LEARNING TO DETECT ILLEGAL LANDFILLS IN AERIAL IMAGES WITH SCARCE LABELING DATA

2022

GRADUATION THESIS - USAGE OF COMPUTER VISION FOR ILLEGAL LANDFILLS DETECTION

### WEAKLY SUPERVISED OBJECT DETECTION FOR REMOTE SENSING IMAGES: A SURVEY

2022

PUBLISHED ON MDPI - REMOTE SENSING

### A GENERATIVE APPROACH FOR FACIAL EXPRESSION DATA AUGMENTATION

2022

ADVANCED DEEP LEARNING CONFERENCE - POLITECNICO DI MILANO

### RGB IMAGE MOSAICING VIA MULTI-GRAPH SYNCHRONIZATION

2022

COMPUTER VISION CONFERENCE - POLITECNICO DI MILANO

## SKILLS

**PROGRAMMING LANGUAGES** *Experienced:* Python *Familiar:* C | C++ | Javascript | Java | Matlab

**SOFTWARE DEVELOPMENT** Programming Paradigms | GIT | CLI | DBMS | Docker | AWS

**FRAMEWORKS & LIBRARIES** Langchain | Pytorch | Tensorflow | Pandas | Numpy | HuggingFace | FastAPI | GIS | River

**LANGUAGES** *Native:* Italian *Fluent:* English

## EXTRA

- Passionate about music and cinema.
- Former Ping-pong professional player, Sax and Piano player and stage actor.