



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	<i>Experienced:</i> Python <i>Familiar:</i> 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	<i>Native:</i> Italian <i>Fluent:</i> English

EXTRA

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