

PH.D. STUDENT IN A

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Summary

I am currently an Artificial Intelligence Researcher specializing in Computer Vision architectures. With a strong work ethic and a passion for challenges, I thrive in competitive environments and am relentless in solving complex bugs. Continuously seeking to expand my expertise, I actively pursue opportunities to learn new technologies and approach problems from diverse perspectives, aiming to enhance my knowledge and drive innovation.

Technical Skills

AI-ML frameworks Pytorch, Numpy, Pandas, Slurm

Programming Python

Open Source contributions pytorch-image-models

Languages Italian (native), English (C1)

Non-technical Skills

Leadership Gained as a top junior volleyball player

Work

University of Pisa Modena, Italy

Ph.D. STUDENT IN ARTIFICIAL INTELLIGENCE Nov. 2022 - Now

- Research on Computer Vision, self-supervised pre-training methods for Vision Transformer
- · Research on Deepfake detection
- Research on evaluation of text-to-image models

AlmageLab, University of Modena and Reggio Emilia

Modena, Italy

Al Researcher Intern Feb. 2022 - Nov. 2022

 $\bullet \ \ {\it Research on Computer Vision, self-supervised pre-training methods on Vision Transformer}$

Projects

ELSA: European Lighthouse on Secure and Safe Al

Europe Nov. 2022 - Now

Al researcher

• European-founded project in which I am in charge of creating and managing a challenge for Deepfake detection.

Prometeia s.p.a & DAT Italia s.r.l

Bologna, Italy

Nov. 2021 - Feb. 2022

Al researcher

• Car damage projection from 2D images to 3D model

• Provided pipeline to create a 3D digital twin of a damaged vehicle.

Education

UNIMORE (University of Modena and Reggio Emilia)

Modena, Italy

MASTER'S DEGREE IN COMPUTER ENGINEERING (SPECIALIZATION ARTIFICIAL INTELLIGENCE)

Oct. 2020 - Oct. 2022

- Grade: 110/110 with honors
- · Machine Learning
- Computer Vision
- · Deep Learning
- Natural Language Processing

UNIMORE (University of Modena and Reggio Emilia)

Modena, Italy

Sep. 2017 - Oct. 2020

BACHELOR'S DEGREE IN COMPUTER ENGINEERING

- Grade: 110/110 with honors
- Started building a structure to my IT skills

May 24, 2024 Lorenzo Baraldi · CV

Publications

2023	Lorenzo Baraldi*, Roberto Amoroso*, Marcella Cornia, Lorenzo Baraldi, Andrea Pilzer, Rita Cucchiara "Learning to Mask and Permute Visual Tokens for Vision Transformer Pre-Training"	Under review, CVIU
2022	Federico Cocchi*, Lorenzo Baraldi*, Samuele Poppi, Marcella Cornia, Lorenzo Baraldi, Rita Cucchiara	ICIAP, Oral
2023	"Unveiling the Impact of Image Transformations on Deepfake Detection: An Experimental Analysis"	ICIAF, OIUI
2022	Federico Betti, Jacopo Staiano, Lorenzo Baraldi, Lorenzo Baraldi, Rita Cucchiara, Nicu Sebe "Let's ViCE!	ACM Multimedia
2023	Mimicking Human Cognitive Behavior in Image Generation Evaluation"	BNN, Oral
	Davide Caffagni*, Federico Cocchi*, Luca Barsellotti*, Nicholas Moratelli*, Sara Sarto*, Lorenzo Baraldi*,	
2024	Lorenzo Baraldi, Marcella Cornia, Rita Cucchiara "The (R)Evolution of Multimodal Large Language	ACL Findings
	Models: A Survey"	
2024	Lorenzo Baraldi*, Federico Cocchi*, Lorenzo Baraldi, Marcella Cornia, Rita Cucchiara "Contrasting	Undorravious
	Deepfakes Diffusion via Contrastive Learning and Global-Local Similarities"	Under review
2024	Federico Betti*, Lorenzo Baraldi*, Brandon Willy Viglianisi, Lorenzo Baraldi, Rita Cucchiara, Nicu Sebe	Under review
	"Hallucination Early Detection in Diffusion Models"	Under review
2024	Silvia Cappelletti*, Lorenzo Baraldi*, Federico Cocchi, Marcella Cornia, Lorenzo Baraldi, Rita Cucchiara	l la dor ravious
	"Adapt to Scarcity: Few-Shot Deepfake Detection via Low-Rank Adaptation"	Under review

Honors & Awards

2020-21- 22-23	Winner, "University of Modena and Reggio Emilia" top students award	Modena, Italy
2017	Winner, "Cavalieri del Lavoro" top students award	Emilia Romagna, Italy
2013-14-	Winner , "Cassa di risparmio di Carpi" top students award	Carpi, Italy
23	willier, Cassa di rispannio di Carpi top students award	carpi, italy

Reviews_____

ICIAP 2023	Reviewed 2 papers for the main conference
ICCV Workshop 2023	Reviewed 4 papers for the DeepFake Analysis and Detection (DFAD) workshop
CVPR Workshop 2024	Reviewed 3 papers for the DeepFake Analysis and Detection (DFAD) workshop
ECCV 2024	Reviewed 3 papers from the main conference
ACM Multimedia 2024	Reviewed 5 papers from the main conference

General Interests _____

Volleyball	I played volleyball and won 1 National Junior League championship, 1 silver medal in the 2016 National Junior championship, 1 bronze medal in the 2017 National Junior championship(co-captain)
	Helping other students is important to me, plus it's a way to always keep updated maths and basic coding (Super prof platform) Acoustic-Classic guitar and cover