

Giancarlo Paoletti

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ABOUT ME

I am a 3rd year Ph.D. student at the Italian Institute of Technology (IIT). My studies include psychology, neuroscience, and computer science. My current research focuses on building algorithms capable of learning human behavior (i.e., *actions*) without supervision and using *privacy-preserving* human skeletal poses.

COURSEWORK

UNIVERSITY COURSES

Cognitive neuroscience
Neural Networks
Deep Learning
Machine Learning
Artificial and intelligent systems
Computer Vision
...and many more

ONLINE COURSES

Workshop on "Fundamentals of Deep Learning for Multi-GPUs" (NVIDIA Deep Learning Institute)






SUMMER SCHOOLS

DeepLearn 2021 Summer School

LANGUAGE SPOKEN

Italian: *Native*
English: *C1*

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EDUCATION

ITALIAN INSTITUTE OF TECHNOLOGY

PH.D. STUDENT IN COMPUTER VISION

Nov 2019 - Present | Genova, IT

Pattern Analysis and Computer Vision research line at the Italian Institute of Technology, advised by Dr. Alessio Del Bue.

- Research on Unsupervised feature learning for Skeletal Human Action Recognition
- Development of Subspace Clustering and temporal pruning algorithms (published as *Oral paper* at ICPR2020 [1]), graph Laplacian and viewpoint-invariance methods (published as *Oral paper* at BMVC2021 [2])

UNIVERSITÀ DEGLI STUDI DI TORINO

M.S. IN PSYCHOLOGY

2016 - 2019 | Turin, IT

Master degree in Scienze del Corpo e della Mente (Body and Mind Sciences)

- *Thesis title*: Deep Learning and Neuroscience: an integration

UNIVERSITÀ DEGLI STUDI DI URBINO CARLO BO

B.S. IN PSYCHOLOGY

2013 - 2016 | Urbino, IT

Bachelor degree in Scienze e Tecniche Psicologiche (Psychology Sciences and Techniques)

- *Thesis title*: Intelligenza Artificiale: Definizione, Evoluzione ed Utilizzo in Ambito Psicologico
(*transl.* Artificial Intelligence: Definition, Evolution and Applications in Psychology)

SKILLS

PROGRAMMING

Over 5000 lines:

Python • Matlab • \LaTeX • Shell • HPC • Multi-GPU training • Horovod

Proficiency with:

Pytorch • Pytorch-lightning • Tensorflow • Keras • Opencv • Scikit-learn • Matplotlib • etc.

Soft skills:

Problem setting • Problem solving • Leadership • Team working • Self-motivation • Self-management • Curiosity • Open-mindedness • Persistence

PUBLICATIONS

- [1] G. Paoletti, J. Cavazza, C. Beyan, and A. Del Bue. Subspace clustering for action recognition with covariance representations and temporal pruning. In *2020 25th International Conference on Pattern Recognition (ICPR)*, pages 6035–6042. IEEE, 2021.
- [2] G. Paoletti, J. Cavazza, C. Beyan, and A. Del Bue. Unsupervised human action recognition with skeletal graph laplacian and self-supervised viewpoints invariance. In *2021 32nd Proceedings of the British Machine Vision Conference (BMVC)*, 2021.