Hamza Amrani
Curriculum Vitae

✉ *hamza.amrani@unimib.it*
○ *https://github.com/hamzi27*
R⁶ *https://researchgate.net/profile/Hamza-Amrani-5*
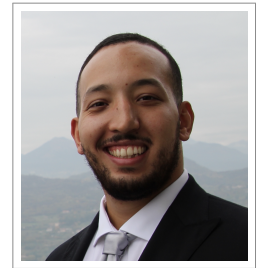
Education

2018 – 2021	**Master's Degree in Computer Science**, *University of Milano-Bicocca*, Milan (*Italy*). Graduated with 110/110 *cum laude* *Thesis*: Model-centric and Data-centric AI for Personalization in Human Activity Recognition. *Supervisors*: Prof. Paolo Napoletano, Prof. Daniela Micucci
2015 – 2018	**Bachelor's Degree in Computer Science**, *University of Milano-Bicocca*, Milan (*Italy*). Graduated with 104/110 *Thesis*: Recognition and Retrieval of logos from digital images. *Supervisors*: Prof. Raimondo Schettini, Dr. Marco Buzzelli
2010–2015	**Technical High School**, *I.T.I.S. P. Paleocapa*, Bergamo (*Italy*). *Thesis*: An Android application that share contacts information with the NFC technology.

Research Experience

2019 – 2021	***Fellow in Inertial Sensor-based movement analysis for Human Activity Recognition***, *University of Milano-Bicocca*, Milan (*Italy*), **Supervisor**: Prof. Daniela Micucci. *Sidera∧B project by Lombardy Region and European Union (Announcement POR-FESR 2014-2020)* - Development of a framework for long term data collection to support automatic HAR; - Personalization of HAR models with Incremental Learning and Deep Learning approaches; - Unsupervised Learning in HAR with Clustering approaches based on Deep Learning. *Thesis supervision*: 3 BSc students and 1 MSc student.

Teaching Experience

University of Milano-Bicocca, Milan (*Italy*)

Spring, 2021	**Mobile Programming Assistantship**, *3rd year, Bachelor's Degree in Computer Science*.
Spring, 2021	**Computer Science and Maths Laboratory Assistantship**, *1st year, Bachelor's Degree in Mathematics*.

I.T.I.S. P. Paleocapa, Bergamo (*Italy*)

2018 – 2019	***High School Computer Science Teacher***, 5 classes, *Subjects*: C++ programming, systems and networks, information technology.

Publications

2021	*(accepted)* **Hamza Amrani**, Daniela Micucci, Marco Mobilio, and Paolo Napoletano. Homogenization of existing inertial-based datasets to support human activity recognition. In *NeurIPS Data-Centric AI Workshop (DCAI 2021), Virtual*, 2021.
2021	**Hamza Amrani**, Daniela Micucci, and Paolo Napoletano. Personalized models in human activity recognition using deep learning. In *2020 25th International Conference on Pattern Recognition (ICPR)*, pages 9682–9688, 2021.

Skills

	Machine Learning, Deep Learning, Signal Processing, Computer Vision, Unsupervised Learning, Feature Extraction, Representation Learning, Information Retrieval
Programming	Python (TensorFlow, Keras, PyTorch), MATLAB, R, C++, Java
Database	SQL, MySQL, MongoDB
Web	HTML5, PHP, Javascript
Languages	Italian (native), English (advanced)