

Hamza Amrani

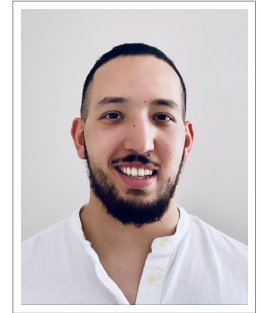
Curriculum Vitae

✉ hamza.amrani@unimib.it

🌐 [Personal website](#)

🐙 <https://github.com/hamzi27>

ℹ️ <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.

Experience

- Mar 2022 – now **Data Scientist**, *ContinuumLab AI*, San Francisco, California, United States.
Development of Luminous Startup for Sustainability Innovation. Use of Environment Social and Governance (ESG) Data and Natural Language Processing.
- Nov 2019 – Nov 2021 **Research Fellow in Deep Learning for Inertial Sensor-based Movement Analysis**, *University of Milano-Bicocca*, Milan, Italy, *Sidera\B* project by Lombardy Region and European Union .
Development and testing of a framework for long term inertial heterogeneous data collection to support automatic Human Activity Recognition (HAR). Personalization of HAR models with Incremental Learning and Deep Learning approaches. Unsupervised Learning in HAR with Seq2Seq architecture and Deep Clustering.

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 **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.
- 2021 **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.

Skills

Machine Learning, Deep Learning, Signal Processing, Computer Vision, Unsupervised Learning, Feature Extraction, Representation Learning, Information Retrieval

- Programming Languages Python (TensorFlow, Keras, PyTorch), MATLAB, R, C++, Java
Italian (native), English (advanced)