

HAMZA AMRANI

Imaging and Vision Laboratory ◊ University of Milan-Bicocca, Italy

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EDUCATION

- Ph.D., Computer Science**, University of Milan-Bicocca 2022 - now
Deep Learning, Signal Processing, Brain-Computer Interfaces, Neurocognitive Speech Production
Supervisors: Prof. Daniela Micucci, Prof. Paolo Napoletano
- Master's degree, Computer Science**, University of Milan-Bicocca 2018 - 2021
Thesis: Model-centric and Data-centric AI for Personalization in Human Activity Recognition.
Graduated with 110/110 *cum laude*
- Bachelor's degree, Computer Science**, University of Milan-Bicocca 2015 - 2018
Thesis: Recognition and Retrieval of logos from digital images.
Graduated with 104/110

ACADEMIC EXPERIENCE

- Research Fellow**, University of Milan-Bicocca Nov 2019 - Oct 2021
Deep Learning for Inertial Sensor-based Movement Analysis.
Project: SideraB by Lombardy Region and European Union for home rehabilitation.
- Teaching Assistant**, University of Milan-Bicocca Mar 2021 - now
2021-3-E3101Q135, Mobile Programming, Bachelor's Degree in Computer Science, 3rd year
2021-1-E3501Q066, Computer Science and Maths Laboratory, Bachelor's Degree in Math, 1st year

PROFESSIONAL EXPERIENCE

- Data Scientist** Mar 2022 - now
ContinuumLab.ai *San Francisco, CA, United States (Remote)*
- Conducting exploratory data analysis to identify trends and patterns, and designing machine learning and statistical models to predict outcomes and optimize business processes
 - Designed and implemented natural language processing (NLP) applications using pre-trained language models and custom training data
 - Developed expertise in generative AI and large language models, including applications built on OpenAI's ChatGPT platform
 - Collaborated with experts from Harvard Business School and Oxford University to develop data-driven solutions to business problems
- High School Computer Science Teacher** Nov 2018 - Jun 2019
I.T.I.S. P. Paleocapa *Bergamo, Italy*
- Theory teacher of 5 classes (1st and 4th year)
 - Subjects: Information technology, C++ programming, Systems and networks

PUBLICATIONS

- Amrani H.**, Micucci D., Napoletano P. (2022). Unsupervised Deep Learning-based clustering for Human Activity Recognition. *2022 IEEE 12th International Conference on Consumer Electronics (ICCE-Berlin)*, 1-6.
- Amrani H.**, Micucci D., Mobilio M., Napoletano P. (2021). Homogenization of Existing Inertial-Based Datasets to Support Human Activity Recognition. *NeurIPS Data-Centric AI Workshop 2021*.
- Amrani H.**, Micucci D., Napoletano P. (2021). Personalized Models in Human Activity Recognition using Deep Learning. *2020 25th International Conference on Pattern Recognition (ICPR)*, 9682-9688.