



Ciro Mennella

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ABOUT ME

Ciro Mennella is curious, intuitive, dynamic and innovative. He is currently pursuing the Ph.D. degree in artificial intelligence on health and life sciences at Campus Bio-Medico University, Rome, Italy, in collaboration with the Institute for High-Performance Computing and Networking (ICAR) of the Research National Council of Italy (CNR), Italy. From 2020 to 2021, he was a Research Fellow with the Institute of Biophysics (IBF) of the National Research Council (CNR) in Genova, Italy. His research interests include the validation of new technologies for data-driven therapy approaches, AI for disease diagnosis and patient monitoring, machine learning for patient risk stratification and augmenting clinical workflows.

WORK EXPERIENCE

PhD Researcher

ICAR-CNR [1 Nov 2021 – Current]

Artificial Intelligence techniques and methods to support decentralized healthcare services in rehabilitation.

Research Fellow

Consiglio Nazionale delle Ricerche - CNR [6 Jan 2020 – 31 Oct 2021]

City: Genova

Country: Italy

Clinical and IoT data analysis in healthcare field.
Clinical validation of innovative and digital devices.

Consultant

Business Unit R&D - Neuroscience and Technology - ETT S.p.A. [6 Jan 2020 – 31 Oct 2021]

City: Genova

Country: Italy

Data management and statical analysis for research projects.
Expert-based support from clinical and research perspective to implement digital solutions in rehabilitation.

Internship

Università Vita-Salute San Raffaele [30 Nov 2018 – 30 Jul 2019]

City: Milano

Country: Italy

Statical analysis and reporting for clinical trial in the neurorehabilitation field.

EDUCATION AND TRAINING

National PhD in Artificial Intelligence - Healthcare and Life Science

Università Campus Bio-Medico [1 Nov 2021 – Current]

Data analysis and machine learning

DASI [Sep 2020 – Feb 2021]

Website: <https://www.dasi.education>

- **Data Modelling basics:** Abstraction and Systems Modelling, SQL basics & advanced, Feature Engineering in practice, Data Warehousing concepts, NoSQL DBs;
- **Machine Learning:** Regression, Classification, Dimensionality reduction, Clustering & Retrieval;
- **Tableau:** Collecting and analysing UR, data visualisation, Advanced calculations, Storyboarding;
- **R Studio:** advanced analytics;
- **Rapidminer:** basics & advanced features, case studies lab.

Winter School 2021 - Research Methodologies, Data Science, Biostatistics, Family Medicine, History of Medicine and Health Management

MEDCIDS - Department of Community Medicine, Health Information and Decision, University of Porto [Jan 2021]

Website: <https://winterschool.med.up.pt>

- Latent cluster analysis with R and Mplus
- Advanced data presentation using R: Interactive apps and animated graphs
- Data analysis using Power BI
- Introduction to digital health in primary health care
- *Smartphone-Based Sensors for Non-Invasive Physiological Monitoring*
- *mHealth patient-centred technologies – the future is now*

RISIS School - Tools and methods for analysing STI systems

Research Institute of Sustainable Economic Growth - CNR & Austrian Institute of Technology (AIT) [Jan 2021]

Website: <https://risis.eu>

- Network Science;
- Spatial Models;
- Machine Learning.

Master of Science in Rehabilitation Technologies

Università di Pisa [Jan 2020 – Jun 2021]

Address: Pisa (Italy)

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

Spanish

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

French

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

DIGITAL SKILLS

Microsoft Office / SPSS Statistics / R / Python / Tableau / Microsoft Power BI / LaTeX / AI platform: Pytorch, Tensorflow etc.

ORGANISATIONAL SKILLS

Hard Skills

Advanced analysis of complex data

Scientific writing

Systematic research strategy

Research data management and relational database

Good knowledge of the overall clinical trial process

COMMUNICATION AND INTERPERSONAL SKILLS

Soft skills

Team player

Flexible

Time management

Detail-oriented

Critical thinking

Ability to communicate technical content to non-statisticians (written and verbal)

PROJECTS

DIGIFRAIL4P

[1 Feb 2020 – 30 Oct 2021]

Development of a digital multidimensional fragility index (DIGIFRAIL4P) obtained from information acquired using digital measuring devices. The project was conducted in collaboration with Dip.to Cure Geriatriche, Ortogeriatría e Riabilitazione dell'E.O. Ospedali Galliera, Genova, ETT SpA and CAMELOT Biomedical Systems S.r.l. .

GreeMta: Green Madrid Sustainability

[Dec 2020]

Link: <https://public.tableau.com/profile/greemtosi.team#!/vizhome/ADiveintoMadridsGreenLungs-Greemta/Start?publish=yes>

Acea Smart Water Analytics

[Jan 2021]

Link: <https://www.kaggle.com/c/acea-water-prediction>

PUBLICATIONS

[The Role of Artificial Intelligence in Future Rehabilitation Services: a Systematic Literature Review](#)

[2023]

[Innovative Quantitative Assessment of Hand Function in Carpal Tunnel Syndrome](#)

[2022]

[Characteristics and Applications of Technology-Aided Hand Functional Assessment: A Systematic Review](#)

[2021]

The engineered Glove Hand Test System (HTS) as a part of a new digital multidimensional frailty index.

[2021]

Abstract - SIGOT 2021

PRIVACY

Processing of personal data

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree

