

# Alessandro Corsini

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## Current Position

### **Ph.D. Student in Translational Neuroscience and Neurotechnology**

Center of Translational Neurophysiology for Speech and Communication (CTNSC@UniFe), Istituto Italiano di Tecnologia  
Department of Neuroscience and Rehabilitation, University of Ferrara

Via Fossato di Mortara 19, Ferrara, Italy, 44121

E-mail: [crslsn1@unife.it](mailto:crslsn1@unife.it)

WebSite: <https://alessandrocorsini.github.io>

Linkedin: <https://www.linkedin.com/in/alessandro-corsini-8b1887158>

GitHub: <https://github.com/AlessandroCorsini>

## Job Experience

### **Research and development intern**

Organic Bioelectronics Srl

Mar. – Aug. 2022 (Ferrara, Italy)

- Electrophysiological signal processing (EEG, EMG)
- Scientific literature research and writing

## Education

### **Ph.D. in Translational Neuroscience and Neurotechnology**

University of Ferrara

Nov. 2022 – To Date (Ferrara, Italy)

### **M.Sc. in Innovation in Information and Communication Technology**

Technische Universität Berlin

Sept. 2020 – Oct. 2022 (Berlin, Germany)

Final grade: 1.5 / 1.0

### **M.Sc. in Computer Science and Engineering**

Politecnico di Milano

Sept. 2020 – Sept. 2022 (Milan, Italy)

Final grade: 110/110 cum Laude

### **B.Sc. in Engineering of Computing Systems**

Politecnico di Milano

Sept. 2017 – Sept. 2020 (Milan, Italy)

Final grade: 104/110

### **High School Diploma**

Liceo Scientifico “Cosimo De Giorgi”

2012 – 2017 (Lecce, Italy)

Final grade: 100/100 cum Laude

## Other certifications

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### Computational Neuroscience

Neuromatch Academy

July 2023

Certificate : <https://alessandrocorsini.github.io/docs/Neuromatch%20Comp%20Neuroscience.pdf>

- Machine and Deep learning
- Dynamical systems
- Stochastic processes
- ECoG-based motor imagery of tongue and hand gestures

Course material : [compneuro.neuromatch.io/tutorials/intro.html](http://compneuro.neuromatch.io/tutorials/intro.html)

Project: [github.com/AlessandroCorsini/NMA\\_2023\\_MotorImagery](https://github.com/AlessandroCorsini/NMA_2023_MotorImagery)

### EIT Label in Human-Computer Interaction & Design

(Minor in Innovation & Entrepreneurship)

European Institute of Innovation and Technology (EIT) Digital Master School

Nov. 2022

### Digital Transformation for Organisational Resilience

EIT Digital & School of Economics and Business of Lubljana

Aug. 2021

- Lean startup approach
- Business model
- Innovation & Entrepreneurship

### Hack the NECSTCamp

NECSTLab & Politecnico di Milano

Nov. 2020

- Hackathon
- Software development for a smart alarm

### EleMenti d'Impresa

Politecnico di Milano

Dec. 2019

- Innovation & Entrepreneurship

## Relevant university projects

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### Front-End/Back-End Headless CMS integration

DocVox & Technische Universität Berlin

Oct. 2021 – Feb. 2022 (Berlin, Germany)

GitHub : <https://github.com/DocVox-Official/app-frontend.git>; <https://github.com/DocVox-Official/cms.git>

### Digital Transformation for the next pandemic tracking

Microsoft Garage & Politecnico di Milano

Feb. – July 2021 (Milan, Italy)

Report: [https://polimi365-](https://polimi365-my.sharepoint.com/:b:/g/personal/10623885_polimi_it/EYOsBJo8dyhBttHsMYKcEdcBz7Q2TCu_OU_AQGdChcw3VA?e=0HQYqYa)

[my.sharepoint.com/:b:/g/personal/10623885\\_polimi\\_it/EYOsBJo8dyhBttHsMYKcEdcBz7Q2TCu\\_OU\\_AQGdChcw3VA?e=0HQYqYa](https://polimi365-my.sharepoint.com/:b:/g/personal/10623885_polimi_it/EYOsBJo8dyhBttHsMYKcEdcBz7Q2TCu_OU_AQGdChcw3VA?e=0HQYqYa)

### Advanced User Interfaces (MuseX)

i3Lab & Politecnico di Milano

Sept. – Feb. 2021 (Milan, Italy)

Natural science VR Museum in Unity, Youtube video: <https://www.youtube.com/watch?v=Io4tcn5UZQc>

## **Language**

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**English:** Advanced, **Italian:** Native

## **Softwares and programming languages**

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Python, Matlab, C, Java, C++, Unity, HTML, CSS, VueJs

## **Publications**

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“EEG Encoding of Speech Acoustics and Articulatory Features: A Partial Information Decomposition Study”, M.Sc. Thesis (2022), <https://hdl.handle.net/10589/195240>

## **Work in progress**

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“The role of delta and theta bands in the articulatory encoding during speech listening”, CTNSC@Unife.