

# ALESSANDRO CORSINI

+39 (329) 4769684 [alessandrocorsini.github.io](https://alessandrocorsini.github.io) [crslsn1@unife.it](mailto:crslsn1@unife.it)  
[linkedin.com/in/alessandro-corsini-8b1887158](https://www.linkedin.com/in/alessandro-corsini-8b1887158) [github.com/AlessandroCorsini](https://github.com/AlessandroCorsini)

## Current Position

I am a Ph.D. student in Translational Neuroscience and Neurotechnology at the *Center for Translational Neurophysiology of Speech and Communication* of the Istituto Italiano di Tecnologia located in Ferrara, Italy. Here, I study the nature of human speech processing and perception: the way humans extract, store and integrate information about speech streams.

## Education

<b>Istituto Italiano di Tecnologia, Università di Ferrara</b> <i>Ph.D. in Translational Neuroscience and Neurotechnology</i>	Sept 2022 – Present
<b>Politecnico di Milano</b> <i>"Corsi Singoli" from M.Sc. Courses: Machine and Deep Learning, Stochastic Processes</i>	Sept 2023 – Present
<b>Technische Universität Berlin</b> <i>M.Sc. in Innovation in Information and Communication Technology, Final grade: 1.5/1.0</i>	Oct 2020 – Sept 2023
<b>Politecnico di Milano</b> <i>M.Sc. in Computer Science and Engineerig, Final grade: 110/110 cum Laude</i>	Sept 2020 – Sept 2022
<b>Politecnico di Milano</b> <i>B.Sc. in Engineering of Computing Systems, Final grade: 104/110</i>	Sept 2017 – Sept 2020

## Internships

<b>Research and development intern</b> <i>Organic Bioelectronics Srl</i> <ul style="list-style-type: none"><li>Electrophysiological Data Analysis (EEG,EMG)</li><li>Scientific Writing</li></ul>	Mar 2022 – Aug 2022
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## Notable Certifications

<b>Neuromatch Academy</b> <i>Computational Neuroscience</i> <ul style="list-style-type: none"><li>Machine and Deep Learning</li><li>Dynamical Systems</li><li>Stochastic Processes</li><li>ECoG Motor Imagery of Tongue and Hand Gestures</li></ul>	Jul 2023
<b>EIT Digital Master School</b> <i>EIT Label in Human-Computer Interaction and Design</i> <i>Minor: Innovation and Entrepreneurship</i>	Nov 2022
<b>EIT Digital &amp; School of Economics and Business of Lubljana</b> <i>EIT Summer School in Digital Transformation for Organisational Resilience</i> <ul style="list-style-type: none"><li>Lean Start-up Approach</li><li>Business Model</li><li>Innovation and Entrepreneurship</li></ul>	Aug 2021
<b>NECSTLab</b> <i>Hack the NECSTCamp, Hackathon Software Development for a Smart Alarm</i>	Nov 2020

## Notable Github Projects

<b>PyPID_mvn</b> <i>Python package for Partial Information Decomposition</i>
<b>ArticEncod_difficulty</b> <i>Complementary Neural Encoding of Invisible Articulatory Synergies</i>
<b>NMA_2023_MotorImagery</b> <i>ECoG Motor Imagery of tongue and hand gestures</i>

Publications

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<b>M.Sc. Thesis</b>	<b>2022</b>
<i>EEG Encoding of Speech Acoustics and Articulatory Features: A Partial Information Decomposition Study</i>	
<b>Complementary Neural Encoding of Invisible Articulatory Synergies</b>	<b>2023</b>
<b>Speech Perception Difficulty Modulates Theta-band Encoding of Articulatory Synergies</b>	<b>2024</b>
<i>Accepted in Journal Of Neurophysiology</i>	

Language

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English: Advanced, Italian: Native

Programming Languages and Tools

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Python, PyTorch, Matlab, C, Java, SQL, VueJs