

ALESSANDRO CORSINI

 alessandrocorsini.github.io

 linkedin.com/in/alessandro-corsini-8b1887158

 crlsn1@unife.it

 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

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

Job Positions

Teaching Assistant <i>Neuromatch Academy</i>	Jul 2024 – Jul 2024
• Group leading • Computational Neuroscience	
Research and development intern <i>Organic Bioelectronics Srl</i>	Mar 2022 – Aug 2022
• Electrophysiological Data Analysis (EEG,EMG) • Scientific Writing	

Certifications

Neuromatch Academy <i>Computational Neuroscience</i>	Jul 2023
• Machine and Deep Learning • Dynamical Systems • Stochastic Processes • ECoG Motor Imagery of Tongue and Hand Gestures	
EIT Digital Master School <i>EIT Label in Human-Computer Interaction and Design</i> <i>Minor: Innovation and Entrepreneurship</i>	Nov 2022
EIT Digital & School of Economics and Business of Lublijana <i>EIT Summer School in Digital Transformation for Organisational Resilience</i>	Aug 2021
• Lean Start-up Approach • Business Model • Innovation and Entrepreneurship	
NECSTLab <i>Hack the NECSTCamp, Hackathon Software Development for a Smart Alarm</i>	Nov 2020

Some Github Projects

PyPID_mvN

Python package for Partial Information Decomposition

ArticEncod_difficulty

Complementary Neural Encoding of Invisible Articulatory Synergies

NMA_2023_MotorImagery

ECoG Motor Imagery of tongue and hand gestures

Publications

An Organic Artificial Soma for Spatio-temporal Pattern Recognition via Dendritic Integration 2024
Neuromorphic Computing and Engineering

Speech Perception Difficulty Modulates Theta-band Encoding of Articulatory Synergies 2024
Journal Of Neurophysiology

Complementary Neural Encoding of Invisible Articulatory Synergies 2023

M.Sc. Thesis 2022

EEG Encoding of Speech Acoustics and Articulatory Features: A Partial Information Decomposition Study

Funding

Bando 5xmille Università di Ferrara 2024

EIT Scholarship 2021

Full tutition fee waiver

Language

English: Advanced, Italian: Native

Programming Languages and Tools

Python, PyTorch, Matlab, C, Java