



Chiara Ciucci

EDUCATION AND TRAINING

[10/2023 – Current]

PhD in Biorobotics

MINE Lab, Sant'Anna school of advanced studies and San Raffaele Hospital

City: Milano | **Country:** Italy |

Topic: Brain computer interface for movement decoding

Supervisor: Prof. Silvestro Micera and Prof. Eleonora Russo

[10/2020 – 04/2023]

Master's Degree in Bionics Engineering

Università di Pisa, Scuole Superiore Sant'Anna and IMT

City: Pisa | **Country:** Italy |

Thesis title: Investigating M1 control strategies in monkeys doing free reaching and grasping

Thesis directors: Prof. Silvestro Micera and Prof. Lee E. Miller

Final grade: 110/110L

[10/2017 – 07/2020]

Bachelor's Degree in Biomedical Engineering

Università Politecnica delle Marche

City: Ancona | **Country:** Italy |

Thesis title: EMG based classification of gait sub-phases by machine learning

Thesis directors: Prof. Fioretti Sandro, Prof. Di Nardo Francesco and Prof. Morbidoni Christian

Final grade: 107/110

WORK EXPERIENCE

[08/2022 – 02/2023]

Visiting Scholar

Miller Limb Lab, Northwestern University

City: Chicago | **Country:** United States

Conducted experiments with monkeys and developed encoding models to understand M1 control strategies during grasping activity

Supervisor: Prof. Lee E. Miller

[10/2021 – 06/2022]

Lab Trainee

The Biorobotics Institute and CNR

City: Pisa | **Country:** Italy

Fabrication and testing of a device with FBG sensing to investigate the mechanics of the cardiac cycle (European project NeuHeart)

Supervisor: Prof. Calogero M. Oddo

[06/2021 – 10/2021]

Research Intern

Institut de la Vision, Sorbonne University

City: Paris | **Country:** France

Study the impact of stereoscopic vision in everyday life for young and elderly and comparing different loading conditions

Supervisor: Prof. Angelo Arleo

[03/2020 – 06/2020]

Research Intern

Università Politecnica delle Marche

City: Ancona | **Country:** Italy

Implementation of an artificial neural network to classify the gait sub-phases from EMG signals

Supervisor: Prof. Francesco di Nardo Prof. Sandro Fioretti Prof. Christian Morbidoni

PROJECTS

[06/2020 – 09/2020]

Winner of E-Capital 2.0 Business Competition

The competition is an initiative aimed at promoting and supporting entrepreneurial ideas. The competition takes the form of a competition among business ideas, which includes specific training for all participants, mentorship, cash prizes, and scholarships for Istao master's programs.

[09/2019 – 06/2020]

Contamination Lab at Polytechnic Università Politecnica delle Marche

Developed a business idea for a start-up concerning food traceability. Acquired and improved soft skills as teamwork, problem solving approach, result orientation and communication skills.

CONFERENCES AND SEMINARS

[05/2024]

Vision Sciences Society St. Pete Beach, Florida, US

Unraveling the impact of stereoscopic vision on daily tasks in younger and older adults

A.Chopin, D.Rdeini, C.Agathos, **C.Ciucci**, Y.Wang, V.Parmentier, D.Sheynikhovich, A.Arleo

[04/2024]

Society for Neural Control of Movement Dubrovnik, Croatia

Machine learning-based reconstruction of missing kinematic and electromyographic data for electrical stimulation therapy assessment

C.Ciucci, S.Romeni, D.Emedoli, S.Iannaccone, S.Micera

[11/2022]

Society of Neuroscience San Diego, California, US

VOLUNTEERING

[06/2023 – 10/2023]

European Solidarity Corps Kampala, Uganda

Engaged in managing, communication and overseeing operations for a humanitarian association, contributing to initiatives promoting gender equality, protecting vulnerable populations, and addressing climate change and food security challenges.

TECHNICAL SKILLS

Programming Languages

Matlab, Python, C, LabView

Tools and Software

Ansys, Autodesk Fusion, Bento, Cerebus system, COMSOL Multiphysics, Ultimaker CURA, Excel, Git, Jarvis-Mocap, Motive, Latex, OpenSim, Optitrack, PLEXON Offline Spike Sorter, Adobe Illustrator, INKscape, Slic3r, Weka

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Spanish

LISTENING B2 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Milano, Italy, 04/2024

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