



Ludovica Viola

BIOMEDICAL ENGINEERING

CONTACTS



ABOUT ME

Highly motivated and curious biomedical engineering student with a strong passion for innovation and healthcare.

I am currently doing my Phd at the University of Genoa



LANGUAGES

Italian - Native
English -
Fluent French -
Base Spanish -
Base

COMPUTER SKILLS

Programming languages: C++, Matlab, Simulink, Python, Arduino

Software: Microsoft Office, Imagej

SOFT SKILLS

Teamwork, problema solving, leadership

EXPERIENCES

Private tutor

Private Tutor of Math, Physics, Chemistry and English Collaboration with the Norwegian Univeristy of Science and Technology

Publication

"Design of a system to detect the force applied by tourniquets in a manikin's limb" Viola, L.; Lagazzi, E.; Ballardini, G.; Drogo, A.; Bonetti, M.; Marrone, E.; Chirico, M.; Ricci, S.

PROJECTS

Analysis of Biomedical signal : use sensor information to predict what the subject is doing (standing, walking, sitting, lying down), and how this activity evolves over time.

Neurosensory Engineering: Cochlear implant Simulator and retinal prosthetics Simulators

Rehabilitation Engineering: Postural controll analysis from Hunova platform and Gait Analysis and pse estimation
Biomedical Imaging: Rigid co-registration of two MRI volumes based on fiducial points and Filtered Bank-Project Algorithm

Bioengineering of Human Movement: Motion capture using IMU sensor, Multi-channel Electromyography during functional task and Sensorimotor Adaptation

Biomedical Robotics: Forward and Inverse Kinematics in Matlab and Design of a reaching task and of a controller for a planar manipulator using different force fields with Phantom.

EDUCATION

Imperial College London

Experimental thesis
April - October 2023



Imperial College
London

University of Genoa

Master in Bioengineering -
Rehabilitation Engineering and
Interaction Technology
2021 - 2023

Bachelor in Biomedical Engineering
2017 - 2021



UNIVERSITÀ DEGLI STUDI
DI GENOVA