Sonia Massa

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WORK EXPERIENCE

Politecnico di Milano (NEARLab) - Rehab Tech Lab (IIT)

PhD Student

[05/2025 – Current]

Istituto Italiano di Tecnologia - IIT

Research Fellow

[10/2024 – 05/2025]

Research title: "Development of control algorithms for upper limb prosthesis with integrated systems."

Università degli studi di Cagliari

Research assistant

[05/2022 – 09/2022]

Research Grant Title: "Study of eye movements during motor tasks administered in a virtual environment with visual feedback perturbations."
Project Title: "RiPARTO – Tele-rehabilitation through visual feedback perturbations for the upper limb."

EDUCATION AND TRAINING

Master's degree in Bioengineering (Neuroengineering – Rehabilitation engineering and interaction technologies)

Università degli studi di Genova [09/2022 – 10/2024]

Field(s) of study: Biomedical Prosthetics and Robotic Rehabilitation | **Thesis:** From grasping to manipulation: synergy analysis and musculosketal modeling (carried out at: Rehab Technologies Lab (IIT))

Bachelor's degree in Biomedical Engineering

Università degli studi di Cagliari [09/2018 – 04/2022]

Field(s) of study: Neuroengineering and Neurorehabilitation | **Thesis:** Study and Implementation of MATLAB Software Modules for the Study of Ocular Motility

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

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

PUBLICATIONS

From grasping to manipulation: Kinematic synergy analysis for advanced prosthetics.
Massa, S., Marinelli, A., Laffranchi, M., Boccardo, N., & Sanguineti, V. (2025). ***From grasping to manipulation: Kinematic synergy analysis for advanced prosthetics,*** 47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society EMBC2025.

47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society

EyeLab: a user friendly Matlab graphical user interface for real-time eye movements studies
Sedda G., Olla G., Massa S., Raffo L., Traccis S., & Pani D. (2022, December). ***EyeLab: a user-friendly Matlab graphical user interface for real-time eye movements studies.*** In *PERCEPTION* (Vol. 51, pp. 95-95). 1 OLIVERS YARD, 55 CITY ROAD, LONDON EC1Y 1SP, ENGLAND: SAGE PUBLICATIONS LTD.

ECVP 2022 - European Conference on Visual Perception 2022