

Cristina Quagliozi

Current location: Boston, MA, USA | *Home:* Rome, Italy |

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LinkedIn: [Cristina Quagliozi](#)

GitHub: github.com/CristinaQuagliozi/Codes.git

Professional Experience

Boston Children's Hospital & Harvard Medical School - Boston, MA, United States

Student Intern Research Assistant, Department of Newborn Medicine

September 2023 - April 2024

- Spearheaded research on "The Effect of Nutritive Sucking on Newborn's Brain Activity: an EEG Study" for the New England Science Symposium at Harvard Medical School.
- Collected and processed multimodal data from patients with epilepsy, employing Matlab, Brainstorm, Freesurfer, and 3D Slicer.
- Executed 3D reconstruction, image co-registration, signal filtering, and connectivity analysis to identify electrophysiological biomarkers.
- Acquired expertise in EEG and EMG analysis.
- Worked in the operation room.

Education

University 'Campus-Bio Medico of Rome' - Rome, Italy

Master in Biomedical Engineering, Biorobotics

May 2024

- *Relevant Coursework:* Industrial/Medical Robotics, Mechatronics, Digital Signal/Image Processing, Bionic Systems, Bioengineering, Biomechanics, Rehabilitation Bioengineering, Chemical Engineering.
- *Projects:* Developed a robotic arm using Matlab, a mechatronic system using Matlab, Onshape, Python, and designed a controlled Infusion Syringe Pump using Python, Eagle.
- *Skills:* Concurrent engineering, budgeted design, modeling, and testing; adept at technical report writing in English.

University 'La Sapienza' of Rome - Rome, Italy

Bachelor in Clinical Engineering

December 2021

- *Relevant Coursework:* Physics Machines, Applied Mechanics, Fluid Mechanics, Electrical Engineering, Signal Processing, Electronics, Biomedical Instrumentation, Electromagnetic Fields and Optics.

Skills

- *Data Analysis:* Multimodal data processing, EEG, and EMG analysis.
- *Programming:* *Matlab, Brainstorm, Freesurfer, 3D Slicer, Python.*
- *Statistical Analysis.*
- *Neuroimaging Analysis.*
- *Robotics and Mechatronics:* Planning, programming, and construction.
- *Biodesign:* Mechatronic device design for biomedical applications.
- *Effective verbal, written, and interpersonal communication skills.*
- *Technical Proficiency:* Microsoft Office Suite (Outlook, Word, Excel, Access, Power Point).
- *Excellent code skills in Matlab.*
- *Strong communication and writing skills in English.*

Languages

- Fluency in English: level C1.

Driver license