



## Giulia Savina

**Nationality:** Italian **Date of birth:** 22 Jul 1998

✉ **Email address:** [giulia.savina@uniroma1.it](mailto:giulia.savina@uniroma1.it)

✉ **Email address:** [savina@diag.uniroma1.it](mailto:savina@diag.uniroma1.it)

in **LinkedIn:** [www.linkedin.com/in/giulia-savina-33058b266](https://www.linkedin.com/in/giulia-savina-33058b266)

📍 **Home:** 00176 Rome (Italy)

### WORK EXPERIENCE

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#### **Biomedical Engineer - Occasional self-employment**

**Fondazione Santa Lucia IRCCS** [ Jun 2023 – Oct 2023 ]

City: Rome

Country: Italy

Research activity at the Laboratory of Neuroelectrical Imaging and BCI (NEILab) within the project "RECOMmENcER: RE-establishing Cortico Muscular COMunication to ENhance Recovery. Clinical validation of BCI-controlled Functional Electrical Stimulation for upper limb rehabilitation after stroke" (GR -2018- 12365874), funded by the Italian Ministry of Health

### EDUCATION AND TRAINING

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#### **PhD Student in Automatic Control, Bioengineering and Operations Research (ABRO)**

**Sapienza University of Rome** [ Nov 2023 – Current ]

City: Rome

Country: Italy

39° PhD Program at Department of Computer, Control and Management Engineering "Antonio Ruberti". Part of the research activity is carried on at NEILab of Fondazione Santa Lucia IRCCS due to the bilateral agreement signed between the Foundation and the University

*Curriculum:* Bioengineering

*Supervisor:* Prof. Jlenia Toppi

*Research Interests and Activities:*

- Neuroengineering research
- Acquisition and analysis through advanced processing techniques of biosignals (electroencephalographic and electromyographic) of healthy subjects and stroke patients
- Development of Brain-Computer Interfaces
- Neurorehabilitation of post-stroke patients through technological aid

#### **Internship Student**

**Fondazione Santa Lucia IRCCS** [ Jul 2022 – Jan 2023 ]

City: Rome

Country: Italy

Master thesis at NEILab

#### **Master in Biomedical Engineering**

**Sapienza Università di Roma** [ Sep 2020 – Jan 2023 ]

City: Rome

Country: Italy

Final grade: 110/110 cum laude

**Thesis:** "Analysis of brain and cortico-muscular features as input of a Brain-Computer Interface to discriminate simple hand movements"

*Relevant Courses:* Advance Method of Biomedical Data Analysis, Neuroscience, Biomechanics, Imaging Diagnostics, Image Processing

*Projects and Laboratories:*

- Implementation of the optimal dosing of a chemotherapy drug - *Control of Biological Systems*
- Feature extraction of signals defined on Point Clouds using an adaptive filter in the Extended Reality context - *Image Processing*
- Urinary tract reconstruction from a real CT scan - *Imaging Diagnostics*
- Laboratory of *Radiation Physics applied to Medicine*

*Thesis Subject:* Models of Biological Systems

## **Bachelor in Clinical Engineering**

**Sapienza Università di Roma** [ Sep 2017 – Oct 2020 ]

City: Rome

Country: Italy

Final grade: 109/110

**Thesis:** "Numerical analysis of the insertion of stents with different levels of porosity within an abdominal aortic aneurysm"

*Thesis Subject:* Fluid Mechanics

## **High School Scientific Diploma**

**Liceo Scientifico Statale Francesco d'Assisi** [ Sep 2012 – Jul 2017 ]

City: Rome

Country: Italy

Final grade: 100/100

## **AWARDS AND CERTIFICATES**

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**Award for the best Master thesis on disability and specific learning disorders (a.y. 2021/2022) | Sapienza University of Rome**

[ Mar 2024 ]

**First Certificate in English | University of Cambridge (UK)**

[ Jul 2016 ]

Europass level B2

## **PUBLICATIONS**

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**Comparing different EEG-based features for simple hand motor tasks discrimination in a rehabilitative context: study on healthy and post-stroke individuals**

[2024]

V. de Seta, E. Colamarino, F. Pichiorri, **G. Savina**, F. Patarini, A. Riccio, F. Cincotti, D.Mattia, J. Toppi

*Submitted to:* Journal of Neural Engineering (JNE)

## **LANGUAGE SKILLS**

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Mother tongue(s): **Italian**

Other language(s): **English** | **French**

## DIGITAL SKILLS

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### Programming

MATLAB / MATLAB Simulink / MATLAB App Designer / Python / C / HTML / Graphic User Interface (GUI) Design / E  
EGLAB

### Software

Brain Vision Recorder / Brain Vision Analyzer / OpenViBE / LORETA / ANSYS Fluent / 3D Slicer / STATISTICA / Micro  
soft Office Suite / Microsoft Windows operating system / MacOS operating system

### Technical

EEG recording / EMG recording / IMU recording / FES stimulation

## SOFT SKILLS

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**Enthusiasm / Motivation/ Curiosity / Creativity / Teamwork / Result orientation**

## DRIVING LICENCE

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**Driving Licence:** AM

**Driving Licence:** B

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*I give consent to process my personal data, with the purpose of the recruitment process, in accordance to the Legislative  
Decree n° 196/03 and to art. 13 GDPR 679/16 UE Regulation, regarding the protection of personal data*

12 Mar 2024



Giulia Savina