

# GRETA RINALDINI

## PERSONAL INFORMATION

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| <b>Date of birth</b>   | 30 January 2001                                                                                                                               |
| <b>Place of birth</b>  | Rome, Italy                                                                                                                                   |
| <b>E-mail</b>          | greta.rinaldini@uniroma1.it                                                                                                                   |
| <b>Work address</b>    | Department of Computer, Control and Management Engineering "Antonio Ruberti", Sapienza University of Rome, Via Ariosto 25, 00185, Rome, Italy |
| <b>Driving licence</b> | B                                                                                                                                             |

## EDUCATION AND TRAINING

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**PhD Student in Automatic Control, Bioengineering and Operations Research (ABRO)** 01/11/2024 – ongoing  
*Sapienza University of Rome, Department of Computer, Control and Management Engineering "Antonio Ruberti"*  
Curriculum: Bioengineering  
Supervisor: Prof.ssa Laura Astolfi

**Master's Degree in Biomedical Engineering** 26/09/2022 – 24/10/2024  
*Sapienza University of Rome*  
Grade: 110/110 Cum Laude  
Thesis title: "Development of a multidimensional alignment algorithm for multi-subject networks from EEG hyperscanning data"  
Thesis subject: Industrial Neuroscience

**Bachelor's Degree in Clinical Engineering** 23/09/2019 – 11/07/2022  
*Sapienza University of Rome*  
Grade: 110/110 Cum Laude  
Thesis title: "Oscillatori sinusoidali"  
Thesis subject: Electronics

**High School Scientific Diploma** 11/09/2014 – 09/07/2019  
*Liceo Scientifico Statale "Plinio Seniore"*  
Grade: 100/100 Cum Laude

## PARTICIPATION IN RESEARCH GROUPS

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### ***Bioengineering and Bioinformatic Laboratory (BiBiLab)***

*Sapienza University of Rome, Department of Computer, Control and Management Engineering "Antonio Ruberti"*

Responsible: Laura Astolfi

## PARTICIPATION IN RESEARCH PROJECTS

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Participant in the PRIN2020 Project ACT2 – Acting together: how motor styles shape action prediction and brain-to-brain connectivity in typical and autistic populations

## AWARDS AND ACHIEVEMENTS

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- Bachelor's Degree Award given by DiSCo Lazio 2024
- Diploma Award given by the Ministry of Education 2019

## PUBLICATIONS

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### ***Abstract in National and International Conferences***

1. M. G. Puxeddu, **G. Rinaldini**, L. Astolfi, "Multi-dimensional networks as a tool to model, analyze, and interpret multi-subject brain connectivity in hyperscanning settings", IEEE BIBM 2024, Lisbon, Portugal, Dec 3-6, 2024.
2. **G. Rinaldini**, M.G. Puxeddu, A. Ciaramidaro, P. Vogel, C. M. Freitag, M. Siniatchkin, J. Toppi, L. Astolfi, "Multi-dimensional networks as a tool to quantify role imbalance in EEG-hyperscanning data", GNB 2025, Palermo, Italy, June 16-18, 2025.
3. **G. Rinaldini**, M.G. Puxeddu, A. Ciaramidaro, P. Vogel, C. M. Freitag, M. Siniatchkin, J. Toppi, L. Astolfi, "Quantification of the spontaneous emergence of leader-follower dynamics in EEG hyperscanning data", IEEE EMBC 2025, Copenhagen, Denmark, July 14-17, 2025.

## LANGUAGES

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- *Italian*: mother tongue
- *English*: B2 level
- *Spanish*: A2 level

## IT SKILLS

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- *MATLAB*: intermediate level
- *Python*: basic level
- *COMSOL*: basic level
- *Sim4Life*: basic level
- *SimNIBS*: basic level
- *LTspice*: basic level
- *Microsoft Office Suite*: advanced level
- *Google Software*: advanced level

## TECHNICAL SKILLS

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- EEG: montage of the cap, acquisition of brain activity, analysis of brain signals (*EEGLAB*)
- Kinematic data recordings (*Vicon system*)

*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*

Rome, 07/05/2025