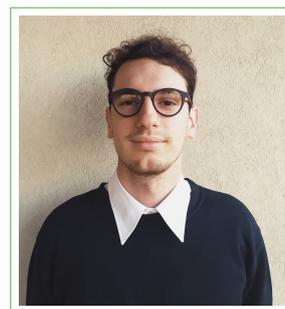


# Edoardo Paolini



## Personal Info

Birth 8th July 1998, Verona, Italy  
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GitHub github.com/edoardopaolini

## Job Info

Position Ph.D. Student in Computer Science  
Affiliation Department of Computer Science, University of Verona, Italy  
Strada Le Grazie, 15 - 37134 Verona  
Lab Brain Navigation Lab (BraiNAVLab)

## Brief Bio

Edoardo Paolini is a **Ph.D. Student** in Computer Science at the University of Verona, Italy. Currently, the main focus of his research lies in the area of **Neuroengineering**, with particular reference to:

- Analysis of Brain Connectivity and Graph Metrics.
- Multivariate Statistical Techniques for Brain Connectivity.
- AI Techniques for Brain Connectivity.

His doctoral program principally aims to **develop EEG-TMS** (electroencephalography - transcranial magnetic stimulation) **systems based on brain connectomics for personalized treatment of epilepsy**.

## Education

Oct. 2023 - **Ph.D. Student in Computer Science**, *Università di Verona*, Verona, IT  
Ongoing Supervisor: Prof. Silvia Francesca Storti  
Description: Development of EEG-TMS systems based on brain connectomics for personalized treatment of epilepsy.

Sept. 2020 - **Master's Degree in Quantitative and Computational Biology**, *University of Trento*, Trento, IT, *110/110 Cum Laude*  
March 2023 Thesis: A Systems Biology Investigation of Metabolic and Flux Dynamics in *Mycobacterium Tuberculosis*.  
Supervisor: Dr. Luca Marchetti; Co-Supervisor: Dr. Federico Reali.

Sept. 2017 - **Bachelor's Degree in Computer Science**, *University of Verona*, Verona, IT,  
July 2020 *110/110 Cum Laude*  
Thesis: Test-retest reliability analysis of functional and effective connectivity measures in resting state fMRI.  
Supervisor: Prof. Silvia Francesca Storti; Co-Supervisor: Dr. Ilaria Boscolo Galazzo.

## Experience

Oct. 2023 - **Ph.D. Student**, *BraiNAVLab - University of Verona*, Verona, IT  
Ongoing Supervisor: Prof. Silvia Francesca Storti.

Apr. 2023 - **Post-Graduation Research Fellow**, *BraiNAVLab - University of Verona*, Verona,  
Sept. 2023 IT  
Scientific Advisor: Prof. Silvia Francesca Storti.

Jan. 2023 - **Research Assistant**, *BraiNAVLab - University of Verona*, Verona, IT  
March 2023

March 2022 - **Internship**, *COSBI - The Microsoft Research - University of Trento Centre for*  
Sept. 2022 *Computational and System Biology*, Rovereto (TN), IT  
University Supervisor: Dr. Luca Marchetti; Company Supervisor: Dr. Federico Reali.

Dec. 2019 - **Internship**, *BraiNAVLab - University of Verona*, Verona, IT  
March 2020 Company Supervisor: Prof Silvia Francesca Storti.

## Languages

Italian Native Speaker  
English IELTS Academic (Score 6.5)

## Computer Skills

Programming *Good Knowledge*: Matlab, Python, R  
Languages *Basic Knowledge*: C, Java, Bash  
Other Word, Excel, PowerPoint, LaTeX

## Publications

- [1] Virginia Filippi, **Edoardo Paolini**, Federica Cruciani, Lorenza Brusini, Francesco Dal Santo, Gloria Menegaz, Ilaria Boscolo Galazzo, and Silvia Francesca Storti. Decoding the interplay between brain structural and functional connectivity in alzheimer's disease. In *VIII Congress of the National Group of Bioengineering (GNB)*, 2023.
- [2] Ilaria Boscolo Galazzo, **Edoardo Paolini**, Walter Endrizzi, Francesco Zumerle, Gloria Menegaz, and Silvia Francesca Storti. Reliability of functional connectivity measures in resting-state test-retest fmri data. In *2021 IEEE 18th International Symposium on Biomedical Imaging (ISBI)*, pages 1860–1863. IEEE, 2021.
- [3] Ilaria Boscolo Galazzo, Francesco Zumerle, **Edoardo Paolini**, Walter Endrizzi, Gloria Menegaz, and Silvia Francesca Storti. Test-retest reliability of graph metrics in functional brain network. In *2021 10th International IEEE/EMBS Conference on Neural Engineering (NER)*, pages 343–346. IEEE, 2021.

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## Conferences

- [1C] *ISMRM Workshop on Current Issues in Brain Function*, 04-06 September 2023, Cultural Center Altinate San Gaetano, Padua, Italy. Poster Presentation: **Edoardo Paolini**, Virginia Filippi, Federica Cruciani, Lorenza Brusini, Gloria Menegaz, Ilaria Boscolo Galazzo, Silvia F. Storti. Exploring the interplay between brain structural and functional connectivity in Alzheimer's disease: A multivariate approach.