

# Curriculum Vitae

# Giulia Romoli

<b>Given and Family Name</b>	Giulia Romoli
<b>Date and Place of birth</b>	08/07/1994, Rome
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## Profile

I got my Master's degree in Physics with honours at the University of Rome "Tor Vergata". For the work on my Master's thesis, I analysed the particle data collected during the ALTEA experiment on board the International Space Station, with the aim of highlighting to what extent a cosmic particle may origin electrophysiological signals passing through the head of an astronaut and affect the astronaut's brain activity. I am still currently carrying on working on the project in the research group of Professor Livio Narici. I am analysing particle data from LIDAL, an updated version of the ALTEA detector mounted on board the International Space Station in January 2020 as part of Luca Parmitano's Beyond mission, in order to characterise the radiation environment to which astronauts are subjected.

## Current position

Nov. 2020 – now	<b>P.h.D student</b> Department of Physics, University of Rome "Tor Vergata" My research project aims to contribute to the study of the radiation environment on board the International Space Station through a joint analysis of data from two detectors on the station, ALTEA/LIDAL and Mini-EUSO.
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## Education

Oct. 2017 – Jan. 2020	<b>Master's degree in Physics 110/110 magna cum laude</b> University of Rome "Tor Vergata" <i>Advisor: Prof. Livio Narici.</i> Dissertation title: "Radiation effects on the electrophysiological activity of astronauts on board the International Space Station".
Oct. 2013 – Mar. 2017	<b>Bachelor's degree in Physics</b> University of Rome "Tor Vergata" <i>Advisor: Prof. Silvia Morante.</i>

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## Relevant experiences

Mar. 2018 – Oct. 2018	<p><b>Internship at the Molecular Oncology Laboratory and Medical Physics Laboratory,</b> Regina Elena National Cancer Institute - San Gallicano Dermatological Institute, Rome. <i>Tutors: Dr. Lidia Strigari, Dr. Gianluca Bossi.</i></p> <p>I worked closely with a team of biologists, gaining a good understanding of the clinical relevance of the radiation induced bystander effects.</p>
May 2017 – Dec. 2017	<p><b>Internship at the Laboratory of Physical Chemistry,</b> Department of Chemical Science and Technologies, University of Rome “Tor Vergata”. <i>Tutors: Prof. Lorenzo Stella, Prof. Silvia Morante.</i></p> <p>I conducted an investigation of the relevance of a hydrophobic peptide in the solubility of benzene in water.</p>
Mar. 2016 – Jun. 2016	<p><b>Internship at the Tor Vergata Biophysics Group,</b> Department of Physics, University of Rome “Tor Vergata”. <i>Tutors: Prof. Silvia Morante, Dr. Velia Minicozzi.</i></p> <p>I gained practical experience of the application and use of classical molecular dynamics for the investigation of the structure and dynamics of proteins and peptides.</p>
Apr. 2016	<p><b>Scientific Computing Course,</b> CINECA, Rome offices: “High Performance Molecular Dynamics”</p>
Jun. 2016	<p><b>Scientific Computing Course,</b> CINECA, Rome offices: “Introduction to Parallel Computing with MPI and OpenMPI”</p>

## Work experiences

Mar. 2020 – Oct. 2020	<p><b>Scholarship holder</b> Department of Physics, University of Rome “Tor Vergata”</p> <p>I started analysing the data coming from LIDAL, a detector on board the International Space Station, carrying on working on the project in the research group of Professor Livio Narici.</p>
Oct. 2016 – Mar. 2017	<p><b>Department of Mathematics Administrative Direction</b> Department of Mathematics, University of Rome “Tor Vergata”</p> <p>I was an administrative assistant.</p>

## Technical skills and languages

**Languages:** Italian (Native), English and German (Independent User)

**Programming skills:** European Computer Driving Licence Certification  
Competent in use of MATLAB  
Basic proficiency in JAVA  
Basic proficiency in C#  
Basic proficiency in ROOT  
Advanced proficiency in Microsoft Office applications  
Familiar in using LaTeX