

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Name **CRISTARELLA ORESTANO, PAOLO**

**EDUCATION AND TRAINING**

- Dates (from – to) 01 / 2022 – on going
- Name and type of organisation providing education and training University of Perugia, Department of Physics and Geology
- Principal subjects/occupational skills covered High Energy Astrophysics, Multimessenger Astronomy
- Title of qualification awarded PhD student
  
- Dates (from – to) 01 / 2018 – 06 / 2021
- Name and type of organisation providing education and training University of Perugia, Department of Physics and Geology
- Principal subjects/occupational skills covered Physics, Astrophysics and Astroparticles
- Title of qualification awarded Master of Science Degree
- Level of national classification ISCED 5A
  
- Dates (from – to) 09 / 2014 – 12 / 2017
- Name and type of organisation providing education and training University of Perugia, Department of Physics and Geology
- Principal subjects/occupational skills covered Physics
- Title of qualification awarded Bachelor's Degree
- Level of national classification ISCED 5A
  
- Dates (from – to) 09 / 2009 – 06 / 2014
- Name and type of organisation providing education and training Liceo Scientifico Galeazzo Alessi, Perugia (Highschool)
- Title of qualification awarded Scientific Highschool Diploma
- Level of national classification ISCED 3A

**MASTER THESIS**

“Periodicity Study in Light Curves of Some Blazars Detected by *Fermi*-LAT”:  
A possible periodic long-term variability in Blazars could be crucial to understand the physical processes in the innermost regions of Active Galactic Nuclei. In this work I have exploited two methods for finding periodicity: Lomb-Scargle Periodogram and Wavelet Weighted Z-transform, adapting them to the objects observed. In addition, significance estimation methods have been thoroughly investigated since they are always problematic in time series studies. To validate the methods and the significance estimation, many types of simulations were implemented and used. Periodic behavior was found in 23 Blazars, with a golden sample of 6 sources with high significance periods.

**PUBLICATIONS**

Baldini, L., et al. "Catalog of long-term transient sources in the first 10 yr of Fermi-LAT data." The Astrophysical Journal Supplement Series 256.1 (2021): 13.  
31 May 2021 arXiv:2106.00100v1

Berretta, A., Cristarella Orestano, P., Cutini, S., Germani, S., Mereu, I., Punturo, M., & Tosti, G. (2022). Comprehension of Jet Physics from the Analysis of the Gamma-Ray Burst Afterglow Parameter Distributions. *Annalen der Physik*, 2200144.

MOTHER TONGUE	<b>Italian</b>
OTHER LANGUAGES	
<ul style="list-style-type: none"><li>• Reading skills</li><li>• Writing skills</li><li>• Verbal skills</li></ul>	<b>English</b> Excellent Excellent Excellent
<ul style="list-style-type: none"><li>• Reading skills</li><li>• Writing skills</li><li>• Verbal skills</li></ul>	<b>Spanish</b> Basic Basic Basic
SOCIAL SKILLS AND COMPETENCES	Excellent interpersonal skills of collaboration and adaptability in any group in international settings. Aptitude for teamwork.
ORGANISATIONAL SKILLS AND COMPETENCES	Ability to coordinate scientific groups.
TECHNICAL SKILLS AND COMPETENCES	Computer skills with programming languages used in scientific research: Python, C++, Java.
DRIVING LICENCE(S)	Italian, B driving license (for cars)

F.to Paolo Cristarella Orestano