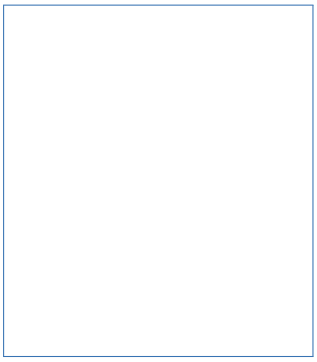
Laura Panebianco

Curriculum Vitae



Personal Informations

Nationality

Date of Birth

Address

Contacts

Phone

Email -

Education

2006 – 2011 **Classical High School Diploma**

School Liceo Classico Gioacchino da Fiore, Rende (CS)

100/100 cum laude

2012 – 2018 **Bachelor Degree in Physics**

University Università di Pisa, Pisa (Pi)

Title *Measure of the B-V Magnitude of Beta-Lyrae*

Grade *91/110*

2018 – 2021 **Master Degree in Physics**, Curriculum in *Astronomy and Astrophysics*

University Università di Pisa, Pisa (Pi)

Title *Multiwavelength Observations of Gamma-Ray Pulsar PSRJ1809-2332 and its Pulsar Wind Nebula*

Grade *108/110*

2020 **International - Erasmus$^+$ Project**

March-June Universitat Autònoma de Barcelona, Bellaterra (Barcellona), Spagna

– Postgraduate program in *High Energy Physics, Astrophysics & Cosmology (In collaboration with IFAE and CSCI)*.

Languages

Italian	Mother tongue
English	B2

Research Interests

During my studies, I explored my interest in experimental physics through laboratory courses in both data analysis and instrument characterization, focusing on multi-wavelength and high-energy astrophysics.
Within the thesis project, centered on the spectral and temporal characteristics of pulsars in the X-ray and γ-ray bands,I acquired experience in data analysis from Fermi,*Chandra* and XMM-Newton observations both working with dedicated software (*Fermitools*, HEASOFT_SAS,*ciao*, *Xspec*) and writing programs.
Given their extreme characteristics, pulsars are also optimal targets for gravitational waves detectors for emissions related to binary coalescence and isolated neutron stars. So in addition to the studies on soft γ-ray pulsars for future high-energy telescopes, I'm also interested in simulations, technical research and data analysis related to the development and set-up of gravitational waves detectors.

Research Experience

2022 - ... **Research Assistant**

Institute Laboratory for Space Research - Hong Kong University

X-ray analysis of potential *soft famma-ray pulsars* related to the CubeSat program developments.

2021 - ... **Member of the *Fermi-LAT* Collaboration**.

Working Experience

2019 **Tutoring Students**, *Università di Pisa*.
Orientation and support activities to students of bachelor's and master's degree corurses in physics.

2021/2022 **High School Teaching**, *Liceo Scientifico Il Potnormo* , Empoli (FI).
Teaching experience in Physics and Matematics, for a period of 6 months.

Computer skills

Coding	PYTHON, C++
Software	MATLAB, *Fermitools*, HEASOFT_SAS, CIAO, *Xspec*
General	*GitHub* & *GitLab*, *Jupyter*, LaTeX, OpenOffice, Linux, Microsoft Windows