[Template to be used only for the admission request to the selection procedure of a PhD programme on the dedicated online platform PICA]

Curriculum Vitae Europass	
Personal information	
Name(s) / Surname(s) Address(esd)	
Telephone(s)	
Fax	
E-mail	
•	
Skype	
Zoom Personal ID	
LINKEDIN:	
Citizenship	
Date of birth	
Sex	
Profile	Doctor in Physics, curriculum Subnuclear and Astroparticle Physics. Now seeking for a PhD research position.
Work experience	
	05/2019 – 03/2020 Member of the LIGO-Virgo "Gamma-Ray Bursts" data analysis group, for master thesis research.
Dates	2010 to date. While my university course was still going on, I started giving private lessons to middle and high school students. After I got my bachelor's degree, I decided to continue also during the specialization.
Occupation or position held	

	29/04/2019-03/05/2019 Data Analysis with the framework ROOT to Laboratori Nazionali del Sud (LNS) di Catania, Italy. Fellow researcher for I.N.F.N (Istituto Nazionale di Fisica Nucleare) at L.N.S to experience data analysis with the framework ROOT. I wrote a macro for the Vinogradov function to updates the role of the crosstalk and afterpulsing probability distributions associated to the output of Silicon Photomultipliers (SiPM). Supervisor: Luciano Pandola.
	2013-2019 – Actively partecipating in Science Divulgation events, organized by Città della Scienza in collaboration with Federico II University of Naples, Futuro Remoto and PONYS (Physics and Optics Naples Young Scientists). Espositore alle seguenti iniziative: Passione Fisica. Termogiocando! Storie di Rivoluzioni, Scienza e Tecnologia. Da Leonardo Da Vinci ad oggi. Un viaggio tra scienza e fantascienza.
Name and address of employer	
Type of business or sector	
Workshops	18-21 April 2020 APS (American Physics Society) Physics Virtual Meeting
	5-8/06/2018 VST in the era of the large sky surveys. Astronomical Observatory of Capodimonte, Naples, Italy.
	24-26/01/2017 Workshop on Dark Matter and Dark Energy to University Federico II of Naples, Italy
	26-29/09/2016AGN12: XII National Congress on Active Galactics Nuclei to University Federico II of Naples, Italy
Education and training	
	20/03/2020 Master Degree in Physics, curriculum Sub-nuclear and Astroparticle Physics, University Federico II of Naples. Thesis Title: A Targeted search for Gravitational waves signals in coincidence with short Gamma Ray Bursts for the LIGO-Virgo Interferometers Network. Supervisors: Prof. Francesco Pannarale, Prof. Tristano Di Girolamo. Final grades: 109/110 http://www.infn.it/thesis/thesis_dettaglio.php?tid=14620
	https://wiki.ligo.org/Bursts/O3PyGRBTraining
	https://wiki.ligo.org/Bursts/O3PyGRBOfflineAnalysis
	My thesis research was carried out within the LIGO-Virgo Collaboration and propose a targeted and coherent search for gravitational wave signals associated with short duration gamma-ray bursts. As an active member of the LVC "Gamma-Ray Bursts" working-group, I have analyzed the off-line interferometers output data in temporal and spatial coincidence with 3 short GRBs (GRB190510430, GRB190606080 and GRB190817953) detected by Fermi satellite during the first part of the third observing run (O3a) of Advanced LIGO and Advanced Virgo (1 April 2019 15:00 UTC — 1 October 2019 15:00 UTC). I used the analysis pipeline PyGRB officially used by the LVC data analysis group. PyGRB is a coherent matched filter within the PyCBC open-source software, used to analyze data from multiple detectors, able to perform various signal-based veto cuts to determine whether a compact binary coalescence signal is present in the given data. The output is a webpage containing the plots that can be used to understand the results of the analysis. My work will make possible the upcoming LIGO-Virgo Collaboration's O3a publications.

Title of qualification awarded	<ul> <li>20/05/2015 Bachelor Degree in Physics, University Federico II of Naple Thesis Title: Study of the emission of fragments in the reaction 58Ni+480 AMeV. Supervisors: Prof. Mariano Vigilante, Dr.ssa Laura Francalanza.</li> <li>Final grades: 95/110 http://www.infn.it/thesis/thesis_dettaglio.php?tid=10489</li> </ul>				i+48Ca to 25	
	07/2009 High school Afragola (NA) Final grades: 94/100.		ation	in scientific stu	dies to "L.S.S. F	ilippo Brunelleschi",
Main subjects / occupational skills						
covered Organisation providing education and						
training						
Level in EQF or national classification						
Personal skills						
	Good skills to carry of methodologies and a			rities that requ	ire knowledge o	f physical
	2018 Acquisition competition for non-q			Iniversity Fede	rico II of Naple	s, for access to the
Mother tongue(s)	Specify mother ton	gue(s)				
<b>C</b> ( <i>)</i>	Italian					
Foreign language(s)						
Self-assessment	Understanding			Spea	Writing	
European level (*)	Listening	Reading	Sp	oken interaction	Spoken production	•
Language English	B2	C1		B2	B2	C1
Language French	A2	A2		A2	A2	A2
	(*) <u>Common European Fi</u>	ramework of Refere	nce fo	<u>r Languages</u>		
Communication skills	I sharpened my decision-making, communication and organization skills while participating as a volunteer in science divulgation events. I started in high school and continued during universities studies. The projects carried out during my studies and the not yet numerous professional experiences have prepared me for teamwork, work for goals and being able to handle different situations and different environments within a multi-cultural context.					
Organisational / managerial skills						
Job-related skills						

Other skills	Digital Skills - Operating systems: Mac OS-X Unix/Linux, Windows. - Programming: C++, basic Python, ROOT. -Softwares: LATEX, Microsoft (Office, Word, Excel, PowerPoint). -LIGO softwares: PyGRB, cluster HPC computing resources. -Smart Working apps: Microsoft Teams, Skype, Zoom, TeamSpeak, Slack, Google Meet.
Driving licence	В
Additional information	Enter any additional information relevant to your application (eg. Publications, memberships, references)
Attachments	List attached documents