# ${\bf Curriculum\ vitae}\ ({\bf September}\ 1^{\rm st},\ 2021)$

## Raphaël Fabio Duque

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RESEARCH IN	NTERESTS	Compact object mergers, gamma-ray bursts, relativistic jets, high-energy emission
		processes, multi-messenger astronomy
EDUCATION	2018 – 2021	PhD in Astrophysics, Sorbonne Université: Doctoral thesis "Compact Object Coalescences and Gamma-Ray Bursts in the Gravitational-Wave Era" prepared at the Institut d'astrophysique de Paris under supervision of Prof. Frédéric Daigne and Dr. Robert Mochkovitch.
	2017 - 2018	Master's in Astronomy, Astrophysics and Space Engineering, <i>Université</i> Paris-Diderot: Cum laude.
	2014 - 2017	Multidisciplinary Polytechnique Diploma, École polytechnique: Prize for remarkable final internship at the European Gravitational Observatory.
Positions H 202	ELD 21 – Present	Post-doctoral position at the Institute for Theoretical Physics, Goethe Universität Frankfurt: Under Advanced ERC project "JETSET" (PI: Prof. Luciano Rezzolla)
TEACHING	2018 – 2021	Master's degree in Astronomy and Astrophysics, Observatoire de Paris-Meudon: Tutoring in courses "Statistical Physics", "Astronomical Data Analysis", "Astronomical Instrumentation and Observations".
	2018 - 2021	Public courses in General Astronomy for the Explorer et Comprendre l'Univers curriculum of the Observatoire de Paris-Meudon.
SERVICES TO	THE ASTROI	PHYSICS COMMUNITY
	since 2021	Publication refereeing: MNRAS (1).
	since 2019 since 2019	Burst Advocate for the <i>SVOM</i> high-energy satellite mission.  Maintainer of the astro-reduce CCD image reducer and astrometry tool.
	2018 – 2021	Co-organizer of the weekly "Multi-Messenger Astronomy Journal Club" in the Paris Area.
SEMINAR TAI	LKS (INVITED	
	vember 2020	TAPIR at Caltech (Pasadena)
Nov	vember 2020	Hebrew University (Jerusalem)
O	ctober 2020	Columbia University (New York City)
O	ctober 2020	Grandma Collaboration Astrophysics Seminar (Paris)
	october 2020	Osservatorio Astronomico di Brera (Milano)
-	tember 2020	Jagiellonian University (Cracow)
A	August 2018	Kavli Institute for Astronomy and Astrophysics (Beijing)
Conference	E TALKS	
	March 2021	National "Multi-messenger astrophysics" Group meeting (Paris)
	October 2020 cember 2019	General Assembly of National Gravitational-Waves Working Group (Paris) Texas Symposium (Portsmouth): Prize for best student talk in the "X-ray messenger" session
	May 2019	Nanjing GRB Conference & SVOM mission workshop (Nanjing)
	March 2019	Asterics Radioastronomy Conference (Groningen)
O	October 2018	Eighth Fermi Symposium (Baltimore, poster)
2018 - 20	021 (yearly)	"Elbereth" Conference by astronomy and astrophysics graduate students in the Paris Area

#### List of publications

### Publications (refereed)

A&A 652 (2021) "The potential role of binary neutron star merger afterglows in multimessenger cosmology"

Mastrogiovanni, S.; **Duque, R.**; Chassande-Mottin, E.; Daigne, F.; Mochkovitch, R.

A& 651 (2021) "Prospects for kilonova signals in the gravitational-wave era"

Mochkovitch, R. ; Daigne, F. ;  $\mathbf{Duque},\,\mathbf{R.}$  ; Zitouni, H.

A&A 639 (2020) "Probing high-density neutron star mergers with afterglow counterparts"

**Duque, R.**; Beniamini, P.; Daigne, F.; Mochkovitch R.

MNRAS 492 (2020) "X-ray plateaus in gamma-ray bursts' light curves from jets viewed slightly off-axis"

Beniamini, P.; **Duque**, R.; Daigne, F; Mochkovitch R.

A&A 631 (2019) "Radio afterglows of binary neutron star mergers: a population study for current and future gravitational-wave observing runs"

Duque, R.; Daigne, F.; Mochkovitch, R.

#### Publications (non-refereed)

GCN 26386 (2019) "LIGO/Virgo S191205ah: no counterpart candidate in SVOM/GWAC observations"

PoS 357 (2019) "Neutron star merger afterglows: population prospects for the gravitational-wave era"

Duque, R.; Daigne, F.; Mochkovitch, R.