




NICOLA BORGHI

Contact Information

 Born in Cento (Ferrara), Italy, 22 May 1996
 Dipartimento di Fisica e Astronomia “Augusto Righi”
 University of Bologna, via Piero Gobetti 93/2, Bologna, Italy
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 [nicoborghi.github.io](https://github.com/nicoborghi)

EDUCATION

University degrees

Ph.D. in Astrophysics 11/2020 – Present
 Department of Physics and Astronomy “Augusto Righi”, University of Bologna, Italy
 Project: “Cosmology with gravitational waves and combination with other probes”
 Advisors: Dr. Michele MORESCO & Prof. Andrea CIMATTI

Laurea magistrale in Astrophysics and Cosmology (cum laude) 9/2018 – 10/2020
 University of Bologna, Italy
 Advisors: Prof. Andrea CIMATTI & Dr. Michele MORESCO

Laurea triennale in Astronomy (cum laude) 9/2015 – 7/2018
 University of Bologna, Italy

Scientific High School Diploma 9/2010 – 7/2015
 ISIT Bassi Burgatti, Cento (FE), Italy

Other courses

ISAPP Summer School on Gravitational Waves 6/2021
 Topics: gravitational wave theory, sources and detectors (current and upcoming)
 Project: gravitational wave data analysis

Asiago Multi-Messenger Astrophysics School 1/2020
 Department of Physics and Astronomy (DFA) of the University of Padova, Italy
 Topics: astrophysical neutrinos, GWs, cosmic rays and detectors
 Project: broadband spectral fitting of blazars



SperimEstate - Summer Internship 6/2014
 INAF OAS - National Institute for Astrophysics, Bologna, Italy
 Topic: study of soft γ -ray selected giant radio galaxies (see Bassani et al. 2016)

RESEARCH

First-author publications

1. Borghi, N., Moresco, M., Cimatti, A., et al. 2021. arxiv.org/abs/2106.14894

Contributed talks

-  Sixteenth Marcel Grossmann Meeting 7/2021
A new measurement of the expansion history of the Universe from cosmic chronometers in the LEGA-C survey
-  Massively Parallel Large Area Spectroscopy from Space 6/2021
Robust constraints on the physical properties of individual passive galaxies from Lick indices in the LEGA-C survey

OUTREACH

Web-based	"Astroversi" - university podcast since 2021
	Department of Physics and Astronomy "Augusto Righi", University of Bologna <ul style="list-style-type: none"> Science outreach podcast structured in four different programs covering general and more advanced astrophysical topics, with a focus on the Ph.D. life, state-of-the-art research, and spin-offs. Role: pre & post-production. Listen on Spotify.
Public engagement	Public lectures and stargazing events since 2016
	Gruppo Astrofili Persicetani, San Giovanni in Persiceto and surrounding areas <ul style="list-style-type: none"> Lecturer at the Planetarium (20+ talks, see the topics) Stargazing nights (10+)
STEM activities	Museo del Cielo e della Terra since 2017
	Agén.Ter., San Giovanni in Persiceto (BO), Italy <ul style="list-style-type: none"> Physics labs for elementary to high schools (50+)
	Officina Laboratorio 6/2021
	Department of Physics and Astronomy "Augusto Righi", University of Bologna <ul style="list-style-type: none"> Laboratory activities for high schools
OTHER INFORMATION	
Extra-curricular activities	<i>Regional Commissaire</i> , Italian Cycling Federation since 2017
	<i>Volunteer amateur astronomer</i> , Gruppo Astrofili Persicetani (www.gapers.it) since 2016
Awards	Best poster prize at the ISAPP Summer School on Gravitational Waves 2021
	Riconoscimento "Francesco Viviani", Ferrara, Italy 2015
	Italian Astronomy Olympiad, Macerata, Italy (finalist in the national competition) 2012
Languages	ENGLISH · Fluent (C1)
	IELTS Academic 8 (listening 8.5, reading 9, writing 6.5, speaking 7)
	ITALIAN · Native speaker
	FRENCH · Basic user
IT Skills	Python (intermediate) · FORTRAN (advanced) · RStudio (intermediate) · C++ (intermediate) · Linux/Unix (Debian-based) · L^AT_EX · HTML5 & CSS · OpenOffice · MS Office & Visual Studio · Mathematica · Single-Board Computers & Microcontrollers (Arduino) · Adobe Creative Cloud
Interests	Observational Cosmology · Extragalactic Astronomy · Galaxy Evolution · Multi-messenger Astronomy · Computer Science & Electronics · Stargazing · Photography · Science outreach & public speaking · Travelling · Cooking