NICOLA BORGHI

Con	tact
Informa	tion

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

nicola.borghi6@unibo.it

orcid.org/0000-0002-2889-8997

nicoborghi.github.io

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. 2021a. arxiv.org/abs/2106.14894
- 2. Borghi, N., Moresco, M., & Cimatti, A. 2021b. arxiv.org/abs/2110.04304

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

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

- Lecturer at the Planetarium (20+ talks, see the topics)
- Stargazing nights (10+)

STEM activities

Museo del Cielo e della Terra

since 2017

Agen. Ter., San Giovanni in Persiceto (BO), Italy

Physics labs for elementary to high schools (50+)

Officina Laboratorio 6/2021

Department of Physics and Astronomy "Augusto Righi", University of Bologna

Laboratory activities for high schools

OTHER INFORMATION

Extra-curricular activities

Regional Commissaire, Italian Cycling Federation

since 2017

Volunteer amateur astronomer, 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) 201

Languages

Fluent (C1)

ENGLISH · IFLEC A

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) · LATEX · HTML5 & CSS ·

OpenOffice · MS Office & Visual Studio · Mathematica · Single-Board Computers

& Microcontrollers (Arduino) · Adobe Creative Cloud

Interests

Observational Cosmology $\,\cdot\,$ Extragalactic Astronomy $\,\cdot\,$ Galaxy Evolution $\,\cdot\,$

Multi-messenger Astronomy · Computer Science & Electronics · Stargazing ·

Photography · Science outreach & public speaking · Travelling · Cooking