Nicola Borghi

CONTACT INFORMATION

Renazzo, Ferrara, Italy
22 May 1996
nicola.borghi6@unibo.it
www.linkedin.com/in/nicolaborghi
nicola.borghi22

EDUCATION

PhD in Astrophysics   11/2020 - in progress
University of Bologna, Italy

Project: *Cosmology with gravitational waves and combination with other probes.*
Supervisor: *Dr. Michele Moresco*

MSc in Astrophysics and Cosmology, *Cum Laude*   9/2018 - 10/2020
University of Bologna, Italy

Thesis: *A new estimate of the Hubble parameter at $z \sim 0.7$ using cosmic chronometers.*
Supervisors: *Prof. Andrea Cimatti, Dr. Michele Moresco*

BSc in Astronomy, *Cum Laude*   9/2015 - 7/2018
University of Bologna, Italy

Thesis: *Main properties of the emission of HII regions.*

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

EXPERIENCE

Asiago Multi-Messenger Astrophysics School   January 2020
Department of Physics and Astronomy (DFA) of the University of Padova, Italy

- Topics: astrophysical neutrinos, cosmology and reionization, GWs and detectors, black hole binaries, CRs and detectors, acceleration processes, black-hole galaxy coevolution. Hands-on lesson: broadband spectral fitting of blazars.

Internship   Summer 2014
INAF OAS - National Institute for Astrophysics, Bologna, Italy

- Summer project focused on extracting radio galaxies from a data set of soft γ-ray selected active galaxies based on Swift/BAT observations. The outcomes of such research were further checked and studied by my advisors and contributed to two publications in refereed journals (Bassani et al. 2016 and Panessa et al. 2016, see acknowledgements).

Science Communication since 2017
Museo del Cielo e della Terra (Agen.Ter.), San Giovanni in Persiceto, Italy

- Lecturer at the Planetarium (30+ talks)
- Physics labs for elementary to high school students (50+)

EXTRA-CURRICULAR ACTIVITIES

Regional Commissaire, Italian Cycling Federation since 2017

Event Planner & Web Admin, Amateur Astronomers Group, www.gapers.it since 2016

CTA 1st Science Symposium, Teatro Duse, Bologna (participation) May 2019

ESO Astronomy Camp, Saint-Barthelemy, Italy Winter 2014

Italian National Astronomy Olympiad finals, Macerata, Italy Spring 2012

LANGUAGES

- **ENGLISH**: FLUENT (C1 Level)
  - **IELTS Academic: 8** | Listening: 8.5 | Reading: 9 | Writing: 6.5 | Speaking: 7
- **ITALIAN**: NATIVE SPEAKER
- **FRENCH**: BASIC USER

IT SKILLS

Python (advanced) | **FORTRAN** (advanced) | **RStudio** (intermediate) | **C++** (intermediate) | **Linux/Unix** (Debian-based) | LaTeX | **OpenOffice** | **MS Office & Visual Studio** | **Mathematica** | **Single-Board Computers & Microcontrollers** (Arduino) | **Adobe Creative Cloud**

INTERESTS

Extragalactic Astronomy | Galaxy Evolution | AGN Feedback | Computer Science & Electronics | Stargazing & Photography | Science outreach & public speaking | Travelling | Cooking