Nicola Borghi

CONTACT INFORMATION

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22 May 1996

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EDUCATION

University of Bologna, Italy

9/2018 - Expected: 10/2020 Laurea Magistrale in Astrophysics and Cosmology (MSc equivalent) Weighted Average Mark: 29.74/30

Project Thesis: Estimates of cosmological parameters in the redshift range 0.6 < z < 1using the differential spectroscopic evolution of early-type galaxies as a function of redshift ("cosmic chronometers"). The project includes: selection of massive and passive galaxies from the Large Early Galaxy Astrophysics Census (LEGA-C), high resolution spectral analysis, spectral synthesis and cosmological modelling.

Supervisor: Prof. Andrea Cimatti

Other academic projects: Hydrodynamical simulation of AGN feedback using a modified version of ZEUS code. | Calibration, imaging and scientific analysis of a radio galaxy. | Analysis of X-ray spectra and spectral fitting of obscured AGNs.

Most advanced courses: Galaxy Formation and Evolution | Active Galaxies | Clusters of Galaxies | Dynamics of Stellar Systems | Radioastronomy

University of Bologna, Italy

9/2015 - 7/2018

Laurea Triennale in Astronomy (BSc equivalent), 110/110 Cum Laude

Thesis: Caratteristiche principali dell'emissione di regioni HII (a dissertation regarding emission features and dynamical evolution of HII regions).

Scientific High School, Cento (FE), Italy

9/2010 - 7/2015

Scientific High School Diploma

EXPERIENCE

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+)

Internship

Summer 2014

INAF OAS - National Institute for Astrophysics, Bologna, Italy

 \mathscr{D} 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).

EXTRA- CURRICULAR ACTIVITIES	Regional Commissaire, Italian Cycling Federationsince 2017Event Planner & Web Admin, Amateur Astronomers Group, www.gapers.itsince 2016CTA 1st Science Symposium, Teatro Duse, Bologna (partecipation)May 2019ESO Astronomy Camp, Saint-Barthelemy, ItalyWinter 2014Italian National Astronomy Olympiad finals, Macerata, ItalySpring 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) ETEX 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