

PERSONAL INFORMATION **Riccardo Biondi**

📍 Via Vetoio n.10 67100 Coppito (Aq) , Italy

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Gender Male | Date of birth 4 August 1987 | Nationality Italian

WORK EXPERIENCE

May 2016 – Now **PostDoc**

Universita' degli Studi Dell'Aquila and Laboratori Nazionali del Gran Sasso
Astroparticles physics, in particular Mirror Matter model and their phenomenology

EDUCATION AND TRAINING

2012–2015 **PhD - Thesis Title: 'Oscillation phenomena between ordinary and dark matter particles: the case of neutron and neutrinos'**

Universita' degli Studi Dell'Aquila and Laboratori Nazionali del Gran Sasso

2009–2012 **Masters in Physics - Thesis Title: Realistic description of neutron-neutron correlation effects on the nuclear matrix element of neutrino-less double β decay**

Universita' "la sapienza" di Roma

2006–2009 **Bachelor of Physics - Thesis Title: Hamiltonian-Relativistic Dynamics on the Light-Front**

Universita' "la sapienza" di Roma

PERSONAL SKILLS

Mother tongue Italian

Other languages

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | B2 | C1 | C1 |

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

Computer skills

- Basic use of: MATLAB, Fortran, TurboPascal, GnuPlot and WordPres.
- Intermediate use of: OpenOffice, Linux and OpenMP
- Advanced knowledge of: C, C++ , Root, Microsoft Office MATHEMATICA and \LaTeX

ADDITIONAL INFORMATION

- Publications – February 2017, *High Energy Neutrinos from Dark Matter Decay*, Z. Berezhiani, R. Biondi, and A. Gazizov, PoS NOW2016 (2017) 051
- August 2016, *Flavor composition of the IceCube neutrinos: a quest for sterile neutrinos?*, R. Biondi, Incontri di Fisica delle Alte Energie - IFAE 2015, DOI: 10.1393/ncc/i2016-16271-4
- May 2015, *Dark Matter and IceCube Neutrinos*, R. Biondi, Incontri di Fisica delle Alte Energie - IFAE 2014, DOI: 10.1393/ncc/i2015-15031-4
- December 2014, *Short-range correlation effects on the nuclear matrix element of neutrinoless double- β decay*, O. Benhar Noccioli, R. Biondi, E. Speranza, Phys.Rev. C90 (2014) 6, 065504, arXiv: 1401.2030
- Conferences and Workshops – June 2016, International school of subnuclear physics, 54th course: *The New Physics frontiers in the LHC-2 Era*, 14-23 June 2016, Erice(Tr), Directors: A. Zichichi and G. 't Hooft, Attend to the Conference and presented a contribution in the Plenary session.
- September 2015, Hot topics in Astroparticle Physics, 14-26 September 2015 Laboratori Nazionali del Gran Sasso (It), Member of the Organizing committee, Attend to the Conference and presented a contribution in the Plenary session.
- April 2015, Hot topics in Modern Cosmology *Spontaneous Workshop IX*, 27 April - 1 May 2015 Cargese (Fr), Attend to the Conference and presented a contribution in the Plenary session.
- April 2015, IFAE 2015 - "*Incontri di Fisica delle Alte Energie*", 8-10 April 2015 Universita' di Roma Tor Vergata, Attend to the Conference and presented a contribution in the Plenary session.
- April 2014, IFAE 2014 - "*Incontri di Fisica delle Alte Energie*", 9-11 April 2014 Gran Sasso Science Institute And Laboratori Nazionali del Gran Sasso, Attend to the Conference and presented a contribution in the PhD students.
- Schools – January 2016, "*GGI lectures on the theory of fundamental interactions*", 11-29 January 2014 Galileo Galilei Institute for Theoretical Physics Firenze), Attend to the School and obtained the certificate of attendance.
- February 2015, "*Majorana Lectures*", 9-13 February 2015 Universita' Federico II di Napoli, Lectures by G. 't Hooft "From Standard Model to Black Hole and Back", Attend to the Lectures and obtained the certificate of attendance.
- January 2015, "*GGI lectures on the theory of fundamental interactions*", 12-29 January 2014 Galileo Galilei Institute for Theoretical Physics Firenze), Attend to the School and obtained the certificate of attendance.
- January 2014, "*GGI lectures on the theory of fundamental interactions*", 7-24 January 2014 Galileo Galilei Institute for Theoretical Physics Firenze), Attend to the School and obtained the certificate of attendance.
- October 2013, ESC 13 - "*Fifth I.N.F.N. International School on architectures, tools and methodologies for developing efficient large scale scientific computing applications*", Ce.U.B - Bertinoro (FC) 20-26 October 2013, Attend to the School and passed the related exam.
- Awards June 2016, *Yoichiro Nambu Diploma*, International school of subnuclear physics, 54th course: *The New Physics frontiers in the LHC-2 Era*, Directors: A. Zichichi and G. 't Hooft.