

Marco Di Bella

Curriculum Vitae



Personal informations

First name Marco
Last name Di Bella
Place and date of birth Vicenza (Italy), November 20, 1993
Nationality Italian

Education

- 2015/16 – 2018/19 **Master program in Theoretical Particle Physics. University of Roma Tre (Rome, Italy).**
Title of the thesis: Structure of compact stars in modified theories of gravity (110/110 cum laude).
- 2012/13 – 2014/15 **Bachelor degree in Physics. University of Roma Tre (Rome, Italy).**
Title of the thesis: Monte Carlo simulations of non relativistic quantum systems (110/110 cum laude).
- 2007/08 – 2011/12 **High school diploma.**
Scientific Institute L.S.S. A. Labriola (78/100)

Professional Experiences

- In progress **Football Referee.**
A.I.A F.I.G.C (Associazione Italiana Arbitri)
- 2014 – 2016 **Paid placement within the Mathematics and Physics department of Roma Tre.**
Cooperation with physics laboratory
- 2016 **Summer intern at Fermilab (Chicago).**
- 2015 **Summer student at Desy (Zeuthen, Berlin).**
- 2012 – present **Math and physics private lessons.**
Occasionally, I give high school and university students private lessons in mathematics and physics.

Recent Research Highlights

- March 2018 – February 2019 **Master thesis, Title: Structure of compact stars in modified gravity theories.**
In March 2018 I started working on the thesis with professor Leonardo Gualtieri (University Roma La Sapienza). The topics are extensions of general relativity (such as scalar-tensor theory and Gauss-Bonnet gravity).
- 2016 **Summer intern at Fermilab.**
I worked as a summer student on the g-2 experiment, in particular on the 3D visualization for data and simulation under the supervision of Dr. A. Lyon.

2015 **Summer student at Desy.**

During the summer in Zeuthen I followed courses about physics in general and I worked for the NIC group under the supervision of Dr. S. Schraeder.

Awards

2018 **"Enrico Persico" scholarship from Accademia Nazionale dei Lincei**

Scholarship (6000€) awarded by Accademia Nazionale dei Lincei to four physics master students enrolled in Rome's universities.

2016 **INFN Summer Student Scholarship**

Scholarship awarded by Pisa University, INFN and Fermilab to selected Italian students to spend two months working on particle physics experiments at Fermilab.

2015 **Desy Summer School**

Scholarship awarded by Desy to selected International students to spend two months working on physics experiments at Desy Zeuthen.

2013 – 2015 **Scholarships**

Winner of two scholarships, the first one reserved for deserving students of Math. and Phys. department in 2013. The second one provided by Laziodisu the next year.

2010 **"I make the difference"**

A school program where my class and I won a scholarship for an intercultural exchange with the Cardinal Pole Catholic School in London

2010 **Italian Olympic of Mathematics**

Qualification to the national team finals in Cesenatico

Languages

Italian mother tongue

English fluent (level B2)

Language experiences abroad:

Several months per year spent in other country.

Due to my passion for traveling I spent some times abroad and I spent 2015 and 2016 summers fully involved in international summer programs (Desy [Berlin], Fermilab [Chicago]).

Computer skills

Programming languages	Fortran 77, C, C++, Python
Mathematical tools	Wolfram Mathematica, Matlab
Particle physics and data analysis	Geant4, root
Document markup language	Office, LaTeX
Operative systems	Mac, Linux, Windows