



Lorenzo Speri

Physics Student

Education

Date of birth

26/01/1996

Address

via Quar 16,
San Pietro in Cariano,
Italy

Telephone

+39 333 8341919

Mail

lorenzo.speri@
gmail.com

GitHub

github.com/lorenzsp

About me

I am a physics student who is eager to learn more about theoretical physics and its applications. My approach to the study is based on using mathematical insight into theory combined with experimental evidence to solve problems. I consider numerical simulations a crucial resource to analyze and understand physical models and theories.

2015 - 2018 Bachelor's Degree in Physics

University of Trento

First year

- Physics I: Newtonian Mechanics and Thermodynamics 30/30
- Calculus I: 29/30
- Calculus II: 28/30
- Geometry and Linear Algebra: 18/30
- Computer Science: 24/30
- Physics Laboratory I 30/30 cum laude

Second year

- Physics II: Electromagnetism 27/30
- Physics III: Electrodynamics and Special Relativity 28/30
- Calculus III: 30/30
- Analytical mechanics: Lagrangian and Hamiltonian Mechanics 30/30 cum laude
- Chemistry with laboratory exercises: 28/30
- Mathematical Methods for Physics: 30/30 cum laude
- Experimental Physics II: Electronic and Optics 27/30

Third year at University of Oslo as an exchange student

- Computational Physics: A
- Experimental Methods in Condensed Matter: A
- Quantum Mechanics: B
- Nuclear and Particle Physics
- Condensed Matter
- Statistical Mechanics

2010 - 2015 High School Diploma

Liceo Scientifico Primo Levi

Final score: 96/100.

I participated to the Mathematical Olympiad in 2013, 2014, 2015

09/2014

Discovering high-mass particles with CMS

University of Padova

The purpose of the workshop was to estimate the mass of the Z boson, using basic experimental particle physics and data analysis.

04/2018

Spring workshop in nuclear and particle physics

CERN

The workshop seminars covered: Heavy ion physics, Astroparticle physics and Dark matter, Radioactive Ion Beams for Medical Applications, Particle accelerators, Electroweak interactions, and the discovery of the Higgs boson.

Work Experience

2014-2017 **Private Tutor**

I have been employed as a private tutor to high school age students. To be an effective tutor I have learned how to approach students with varied learning styles for math and physics subjects, and I improved my communication skills.

Computer Skills

Microsoft Office

I have used all Microsoft Office programmes since High School

C/C++

I have written several programmes for academic purposes in physical modelling and simulations

Matlab

I have written scripts for data analysis, and used Matlab to make scientific plots and animations based on numerical simulations

L^AT_EX

I have written all my scientific papers in L^AT_EX

Cactus and EinsteinToolkit

I have recently started using Cactus Framework and EinsteinToolkit for numerical relativity

Honors & Awards

2018 **ERASMUS+ scholarship**

10 months scholarship to study abroad in Oslo

2014 **Workshop: Discovering high-mass particles with CMS**

A 5 day workshop with all expenses paid for food, housing, and tuition

Certifications

02/2018 **TOEFL iBT**
Score 95/120

07/2014 **Certificate of English**
B2

[Tti School of English, London](#)

Other skills

I have played piano for ten years. I have played rugby for six years. I also love swimming, skiing and travelling. I have studied Latin for five years in High School.

Other Info

At the GitHub address it is possible to find scans of my certifications, articles I wrote and a more complete description of the activities of the workshop *Discovering high-mass particles with CMS*.