











# LORENZO TURCO

## MSc in Theoretical Physics

 27/10/1996 (24 y.o.)     ltloreturco@gmail.com     Lorenzo.Turco@ge.infn.it     (+39) 345 597 1443  
 Strada Cappellette 61/ 6, Ovada (AL), CAP 15076  
 linkedin.com/in/lorenzo-turco     facebook.com/ltloreturco     instagram.com/loreturco96  
 twitter.com/ltloreturco     github.com/Lorenzo-Turco



*“All men by nature desire knowledge.”  
– Aristotle*

University Exams, Degree’s Theses, Certificates on:  
<https://github.com/Lorenzo-Turco/Documents>

## EXPERIENCE

### Teaching Tutor

#### Università degli Studi di Genova

 Sep 25, 2019 – Apr 4, 2020     Genoa, Italy

Teaching Tutor experience of

- General Physics
- Mathematical Analysis
- Analytical Geometry and Linear Algebra

for first year students of the Bachelor’s Degree Course in Mechanical Engineering.

## EDUCATION

### Master’s Degree in Theoretical Physics

#### Università degli Studi di Genova

 Sep 2018 – Oct 2020     Genoa & Turin, Italy

**Thesis title:** Neutron-star mergers in scalar-tensor theories of gravity (EN)

**Thesis supervisors:** Prof. Gianluca Gemme – INFN & Dr. Alessandro Nagar – IHES.    **Co-supervisor:** Prof. Nicola Maggiore – INFN  
**Final grade:** 110/110 cum Laude

### Bachelor’s Degree in Physics

#### Università degli Studi di Genova

 Sep 2015 – Sep 2018     Genoa, Italy

**Thesis title:** Extension of the Coulomb and Biot-Savart laws to the non-static case: Jefimenko’s equations (IT)

**Thesis supervisor:** Prof. Lorenzo Mattera – UniGe  
**Final grade:** 110/110 cum Laude




### High School Diploma


#### Liceo Scientifico IIS Carlo Barletti, Opzione Scienze Applicate

 Sep 2010 – Jun 2015     Ovada, AL, Italy

**Final grade:** 100/100

## ACHIEVEMENTS

 **Winner of Teaching Tutor Position**  
 Università degli Studi di Genova  
 Sep 2019 – Apr 2020

 **University Merit Awards**  
 Accademic years: 2015/2016, 2016/2017, 2017/2018, 2018/2019

 **Representative in Regional School Board**  
 2014/2015.  Alessandria, Italy

## PERSONAL SKILLS

Team Working	● ● ● ● ●
Focus on Tasks	● ● ● ● ●
Professional Exchange	● ● ● ● ●
Human Exchange	● ● ● ● ●

## COMPUTER SKILLS

LaTeX	● ● ● ● ●
Mathematica	● ● ● ● ●
Microsoft Office	● ● ● ● ●
MATLAB	● ● ● ● ●
Java	● ● ● ● ●
C++	● ● ● ● ●
C	● ● ● ● ●
MySQL	● ● ● ● ●
ROOT	● ● ● ● ●
SciDAVis	● ● ● ● ●
Unreal Engine 4	● ● ● ● ●

## SCIENTIFIC SKILLS

During my study path, and my thesis work, I had the opportunity to elaborate on several topics of physics and mathematics.

- **Gravity.** Since the last Bachelor year, I focused my attention on the theory of *General Relativity* including several solutions, cosmology, causal structure of spacetime, singularity theorems and calculation techniques in *Gravitational Waves* theory. In my Master's Degree thesis I also had the opportunity to study *Scalar-Tensor* theories of gravity and the Gravitational Waves theory in this framework with my supervisor Dr. Alessandro Nagar and his research group (📍 Turin, Italy).
- **Particle Physics.** My interests also turn to *Quantum Field Theory* and the *Standard Model* of Particle Physics, including the construction of the model starting from *Group Representation Theory* and some phenomenological calculations.

## ORGANIZATIONS

### National Institute for Nuclear Physics (INFN), section of Genoa

📅 Nov 2019 – ongoing

**Position:** Associate

**Group:** National Scientific Commission (CSN) II

### VIRGO Collaboration

📅 Dec 2019 – Nov 2020

**Position:** Member

Affiliation due to the work on the Gravitational Waves within my Master's Degree thesis

## LANGUAGES

### Italian

Mother tongue

### English

Speaking: B2

Reading: C1

Listening: B2

Writing: B2

## CERTIFICATES



### Cybersecurity - BASE level (IT)

🏛️ INFN

📅 Oct 12, 2020



### The GDPR in 10 pills (IT)

🏛️ Università degli Studi di Genova

📅 Sep 30, 2019



### Specific training for the office staff-low risk (IT)

🏛️ Università degli Studi di Genova

📅 Aug 7, 2019



### General training on safety and health in the workplace (IT)

🏛️ Università degli Studi di Genova

📅 Nov 30, 2018