

LORENZO TURCO

MSc in Theoretical Physics

📅 27/10/1996 (24 y.o.) @ ltloreturco@gmail.com @ Lorenzo.Turco@ge.infn.it
📍 Strada Cappellette 61/ 6. Ovada (AL), CAP 15076
in [lorenzo-turco](#) f [ltloreturco](#) @ [loreturco96](#) 🐦 [ltloreturco](#)
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☎ (+39) 345 597 1443



"All men by nature desire knowledge."
– Aristotle

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

ABOUT ME



I am an *ambitious* person 🦅, always looking for *new knowledge* 🧠 and, since the first scholastic years, very good at *working within a team* 👥. I am interested in *Software Developer* </> or *Administrator* 🛠 role. Currently, I am taking a *Salesforce Academy* ☁ at Experis - Manpower Group.

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



Salesforce



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