



Alessio Martini

✉ Email: alemarti.2001@gmail.com 🌐 Website: <https://alessiomartini.github.io/>

Date of birth: 4 Aug 2001 Nationality: Italian

ABOUT ME

A passionate and curious theoretical physicist completing a Master's degree and pursuing further research through a PhD in theoretical and mathematical physics.

EDUCATION AND TRAINING

[Sep 2024 – Current]

Master's in Theoretical Physics

University of Amsterdam <https://iop.uva.nl/itfa>

Country: Netherlands | **Level in EQF:** EQF level 7 | **Thesis:** Generalized Symmetries (Diego Hofman)

Relevant courses: String Theory (Lorenz Eberhardt), QFT (Diego Hofman, Andrea Puhm), QFT in Curved Space (Ben Freivogel), Differential Geometry (Marius Cranic), Condensed Matter Theory, Topology in Physics, Hydrodynamics (Mazi Jalaal).

[Oct 2020 – Nov 2023]

Bachelor's in Physics

Università di Milano Bicocca <https://www.unimib.it/>

Country: Italy | **Final grade:** 103/110 | **Level in EQF:** EQF level 6 | **Thesis:** Anomalies in Quantum Mechanics (Noppadol Mekareeya)

- **Relevant courses:** Mathematics for Physics (Silvia Penati & Alberto Zaffaroni), Geometry, Quantum Mechanics (Carlo Oleari), Special Relativity, Computational Physics Laboratory.
- **Digital skills:** Knowledge and use of programming languages: C, C++, Wolfram Language (Mathematica) - Experience in using LaTeX.

[Sep 2015 – Jun 2020]

High school Diploma - IT and Telecommunications

IISS Villa Greppi <https://istitutogreppi.edu.it/>

Country: Italy | **Final grade:** 90/100 | **Level in EQF:** EQF level 4

- **Digital skills:** Functional proficiency in Python and basic familiarity with HTML, PHP, SQL, and Assembly.
- **Relevant projects:** Development of small embedded systems and automation prototypes, including an RFID-based identification system.
- **Extra:** Short module on modular algebra in cryptography (Andrea Previtali).

WORK EXPERIENCE

University of Amsterdam, Institute for Theoretical Physics

City: Amsterdam | **Country:** Netherlands

[Sep 2025 – Current]

University teaching assistant

- Quantum Field Theory I & II (MSc), lecturer: Diego Hofman
- Electrodynamics (BSc), lecturer: Kareljan Schoutens

Students consistently valued my support, often highlighting the clarity and structure I brought to the sessions. This experience strengthened my interest in teaching and confirmed how much I enjoy contributing to others' learning.

University of Amsterdam, Institute for Theoretical Physics

Country: Netherlands

[Sep 2025 – Current]

Mentor for MSc Students

Supporting incoming first-year MSc students by helping them navigate the program, connect with the department, and integrate smoothly into the academic environment.

Country: Italy

[Sep 2022 – Current]

Private tutor

I've learned to tailor my teaching approach to students' diverse backgrounds and needs while tutoring mathematics and physics at both high school and university levels.

Caffè Mattà

City: Cremella | **Country:** Italy

[Jun 2020 – Feb 2022]

Waiter

During this period, I honed teamwork skills as both a commis and head waiter, while also refining my university scheduling skills due to working late hours.

Milano Gym Lab, A.S.D. Accademia Arti Marziali Sovico

Country: Italy

[Sep 2018 – Jun 2020]

Sports coach

I worked with individuals of all ages, finding effective ways to explain concepts. I managed weekly training schedules and confidently led sessions in Male Artistic Gymnastics and Calisthenics.

PERSONAL ATTRIBUTES AND INTERESTS

Skills and Qualities

- **Skills:** Critical and Analytical Thinking, Collaboration and Teamwork, Effective Communication, Objectivity, Organization skills
- **Qualities:** Adaptability, Open-mindedness, Creativity, Ethical Conduct, Passion and Curiosity

Hobbies

- **Sports:** I enjoy various sports, including Krav Maga, artistic gymnastics, fostering a continuous curiosity for new activities.
- **Music:** Born into a family of classical musicians, I developed a deep interest in classical, jazz, and pop music. Primarily, I focus on playing the piano and guitar after exploring various instruments.

Interests

I am deeply passionate about reading, indulging in films, and experiencing the theatre. These pursuits have profoundly influenced my perspective and mindset.

VOLUNTEERING

[Jul 2022 – Sep 2022]

Bartender Downtown Hostel, Copenhagen, Denmark

I worked at the hostel bar with a ten-person team, handling diverse tasks and engaging with guests. The role exposed me to people from many backgrounds and the local culture.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user