



## Alessio Martini

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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

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### 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

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[ 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

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**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*