



MICHELE MIGNANI

PHD STUDENT

CONTACT

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PERSONAL INFORMATION

- Birth date: 26/03/2000
- Nationality: Italy

LANGUAGES PROFICIENCY

- Italian (mothertongue)
- English (C1)

PROFESSIONAL SUMMARY

I'm a student with a classic scientific academic path: science-based high school, Bachelor of Science and Master of Science in Mathematics and now I'm in the first year of the PhD course in Computer Science and Artificial Intelligence in the University of Udine. During my BSc and MSc I was a student of Scuola Superiore di Toppo-Wassermann, an academic university-level path of excellence with students coming from different backgrounds (more information at <https://scuolasuperiore.uniud.it/>).

EDUCATION

PHD POSITION AT UNIVERSITY OF UDINE

2024 - ONGOING

PhD in Computer Science and Artificial Intelligence

SCUOLA SUPERIORE DI TOPPO-WASSERMANN

2019 - 2024

II level Master

Grade: 110/110 cum laude, Average grade = 30/30

UNIVERSITY OF UDINE

2022 - 2024

Master of Science in Mathematics

Grade: 110/110 cum laude, Average grade = 29.929/30

UNIVERSITY OF UDINE

2019-2022

Bachelor of Science in Mathematics

Grade: 110/110 cum laude, Average grade = 29,873/30

LICEO SCIENTIFICO T.C.O., FERMO, ITALY

2014-2019

High School Diploma

Grade: 100/100 cum laude

PHD PROJECT

Formal methods for AI safety. Particular attention to the problem of autoformalization, its use to safety issues and to probabilistic runtime verification.

PAST EXPERIENCES

ERASMUS

AUGUST 2023 - DECEMBER 2023

NTNU University, Trondheim, Norway

SUMMER SCHOOL - LOGIC FOR APPLICATION AILA AND SILFS

AUGUST 2022

TUTOR FOR STUDENTS IN MATHEMATICS AND INFORMATICS AT UNIVERSITY OF UDINE

2022

AI SAFETY FUNDAMENTAL COURSE (BLUE DOT)

SEPTEMBER 2024 - JANUARY 2025

ARENA (Alignment Research Engineer Accelerator)

MAY 2025 - JUNE 2025

SIDE SKILLS

The Scuola Superiore Toppo-Wassermann allowed me to daily confront my ideas both with scientific students and humanistic ones. The thing that taught me the most was working with other math students: in particular, it was possible to see other available points of view on a topic and this experience trained me to become clearer in expressing my difficulties and in explaining concepts or ideas to other students.

I regard myself a comprehensive person who has a good understanding of the human emotions. I always like to share opinions on different themes and to discuss different perspectives.

Interdisciplinarity is a point of strength of mine: the Scuola Superiore enhanced the interest in topics not particularly related to mathematics with some courses that must have been attended.

TOPICS OF INTERESTS

Mathematics (especially logic, descriptive complexity theory and category theory), Computer Science (especially theoretical informatics, link between algebra, logic and automata, complexity theory, formal methods and AI), Philosophy (especially nihilism, epistemology and philosophy of technology), Literature and Politics. One of the main relevant topic (I'm devoting my PhD to this) I'm interesting in is AGI (Artificial General Intelligence) alignment and in general the risks associated with such a technology.

Bachelor thesis: "Notion of truth in Intuitionistic Logic"

Master Thesis: "Inductive Logic"

AWARDS

- Silver medals at Italian Mathematics Olympics Game and at Italian Physics Olympics Game
- Winner of the scholarship provided by Scuola Superiore Toppo-Wassermann (2019-2024)
- Winner of a scholarship for a PhD on computer science and AI (2024-ongoing)

FAVOURITE BOOKS

- Thus spoke Zarathustra, F. Nietzsche
- The imperative of responsibility, H. Jonas
- Zen in the art of archery, E. Herrigel
- The Little Prince, A. Saint-Exupéry
- Nocturno de Chile, R. Bolaño.

PROGRAMMING PROFICIENCY

- Intermediate skills in Python (PyTorch)