

# Michele Mignani

*PhD Student in Computer Science  
& Artificial Intelligence*

*Udine, Italy*

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Ⓜ Michele-Mignani  
in Michele-Mignani



Personal website: <https://michele-mignani.github.io/>

## Profile

Mathematician with a strong background in mathematical logic and a research focus on artificial intelligence safety. My interests lie at the intersection of logic, formal methods, and AI alignment, with particular attention to autoformalization and verification techniques for safe AI systems.

## Education

- 2024 – ongoing **PhD in Computer Science and Artificial Intelligence, University of Udine**  
Research project on autoformalization for AI safety within the *Guaranteed Safe AI* framework.
- 2022 – 2024 **Master's Degree in Mathematics, University of Udine**  
Final grade: 110/110 *cum laude*. Average exam grade: 29.93/30.  
Thesis: *Inductive Logic*.
- Aug – Dec 2024 **Erasmus Programm, NTNU University, Trondheim, Norway**
- 2019 – 2024 **Second-level Master's Degree, School for Advanced Studies Toppo Wassermann**  
Final grade: 110/110 *cum laude*. Average exam grade: 30/30.  
<https://scuolasuperiore.uniud.it>
- 2019 – 2022 **Bachelor's Degree in Mathematics, University of Udine**  
Final grade: 110/110 *cum laude*. Average exam grade: 29.87/30.  
Thesis: *Truth Tables and Semantics for Intuitionistic Logic*.

## Research & Academic Activities

- May 2025 **ARENA – Alignment Research Engineer Accelerator, London**  
Selective five-week intensive program focused on technical AI alignment and safety research.
- Mar – Jun 2025 **AGI Safety Discussion Group (Organizer), University of Udine**  
Organization and moderation of weekly discussions on AGI safety for researchers and master's students.
- 2024 – 2025 **AI Safety Fundamentals, BlueDot**  
Introductory course covering technical and governance approaches to AI alignment.
- Oct 2024 **AI-ACT Summer School, University of Udine**  
3-day conference on AI ethics, AI policy, and AI governance

## Publications

Jan 2026 **Do LLMs Really Struggle at NL–FOL Translation? Revealing Their Strengths via a Novel Benchmarking Strategy**

With A. Brunello, L. Geatti, A. Montanari, and N. Saccomanno. AAAI 2026.  
<https://arxiv.org/html/2511.11816v1>

## Technical Skills

- Advanced  $\text{\LaTeX}$
- Intermediate C, Python

## Languages

- Italian Mother tongue
- English C1 (IELTS certified, 2024)

## Others

- May 2019 **Silver Medalist at Italian National Mathematics Olympics, Cesenatico**
- March 2019 **Silver Medalist at Italian National Physics Olympics, Senigallia**

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