Andrea Cerutti

Computer Science, Artificial Intelligence

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EDUCATION

•**Politecnico di Milano** *2023 - Dec 2025 (expected)*
Master of Science | Computer Science, Artificial Intelligence GPA: 28.8/30

•**Alta Scuola Politecnica (Politecnico di Milano/Politecnico di Torino)** *Jan 2024 - Sep 2025*
Multidisciplinary international closed number honour program

•**EPFL** *Feb 2024 - Jul 2024*
Exchange semester (merit based selection) | MS Computer Science GPA: 5.3/6

•**Politecnico di Milano** *2020 - 2023*
Bachelor's Degree | Ingegneria Informatica Final Grade: 110 Cum Laude

•**Liceo Scientifico Galileo Galilei** *2015 - 2020*
High School Diploma | Liceo Scientifico Final Grade: 100 Cum Laude

PROJECTS & EXPERIENCE

•**Isolating Path Effect** *Jan 2025 - Dec 2025 (expected)*
Isolating Path Effect is a novel method to uncover the internal reasoning of Language Models

– As part of my Master's Thesis I delved into the state of the art methods of mechanistic interpretability. Our approach to circuit discovery will be presented as part of BlackBox NLP (EMNLP). Our code has been published as a *python package* which can be paired with a *web ui*.

•**PNRelay** *May 2024 - Sep 2025*
PNRelay is a project promoted by Politecnico di Milano aimed at solving peripheral nerve injuries

– My role in the project is to research real-time electroneurography signal classification employing lightweight convolutional neural networks. **Publications:** (Coviello et al.) (Burinato et. al)

•**Politecnico Open unix Labs** *2021 - Present*
POuL is a student association that contributes to the promotion of free and open-source software (FOSS)

– I have contributed by managing association's social networks, held lectures during courses, developed a simple *task management bot* and a *calendar visualizer*.

•**Field Robot Event** *Mar 2023 - Jun 2023*
FRE is a robotic event centered around autonomous navigation in an agricultural environment

– I have contributed to the development of the sensing and mapping aspects of the robot presented by Politecnico di Milano at the 2023 FRE edition. **Publication:** (Zinzani et al.)

SKILLS

Developer Tools: Python, PyTorch, TensoFlow, TransformerLens, Git, docker, ROS2, Nav2, Linux, MATLAB, Java, C
Research Area: Mechanistic Interpretability, Large Language Models, tiny ML, Deep Learning

LANGUAGE SKILLS

Italian: Native language
English: Proficient user certified grade (TOEIC): C1
Deutsch: Basic user certified grade (GOETHE-ZERTIFIKAT): A1

ACHIEVEMENTS

•**Migliori Matricole** Award given by Politecnico di Milano to the freshmen with highest GPA *2020 - 2021*

•**Studente dell'anno 2017-2018** Liceo G. Galilei's student of the year award *2017 - 2018*

•**Lead The Future Mentee** 1to1 mentorship program for highly talented Italian students *2023 - Present*