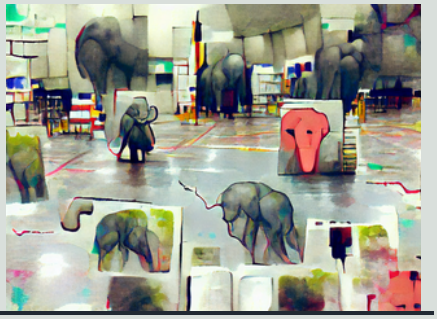
Daniele Pace

IN MY FREE TIME..

Climbing, hiking, reading, good cinema.

CONTACT DETAILS

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https://github.com/danielekp



WORK AND RESEARCH EXPERIENCE

Research Manager *at CAISH | June 2026-ongoing*

Supporting 4 teams in their projects at MARS V: scoping projects, unblocking technical issues, reviewing experimental design.

Research Fellow *at LASR Labs | January 2026-ongoing*

Detecting CoT unfaithfulness with attention probes (initially transcoders), differentiating unfaithful reasoning by the behavior eliciting it (e.g., sycophancy, reward hacking) and studying the internal signals of each category. Supervised by Noah Siegel (Google DeepMind); extended via a Coefficient Giving grant (£ 89,000).

Research Fellow *at MARS 4.0 (CAISH) | December 2025-June 2026*

Project about the analysis of the internal representations of harmful related categories, using linear probing techniques, across different pre-training and post-training stages (Olmo3 checkpoints). Project supervised by Lorenzo Pacchiardi, University of Cambridge.

AI Engineer II *at Stellantis | June 2022-January 2026*

Applied research on trajectory prediction for Autonomous Driving; owned the full experimental loop from data pipelines to training, evaluation, and model iteration on custom deep learning architectures, collaborating with 10 engineers and researchers. Designed and developed a new consistency loss, improving stability of the prediction.
Built the team's internal tool for launching trainings and evaluations at scale from a single config file; orchestrated 1,000+ training runs for hyperparameter tuning (Optuna + CometML).

Fellow AI Engineer *at PiCampus | November 2021-February 2022*

Scholarship (13000€) for working on an AI Challenge with other two fellows from India and California. The project consisted in the development of a semantic search system for papers stored in Apache Solr.

Information Technology Developer *at Manteia | January 2021-June 2022*

Lead the development of a pipeline for document classification and data extraction, using NLP and Computer Vision. Research on the latest advancements in NLP.

ACADEMIC PROFILE

Polytechnic University of Turin *MSc in Computer Engineering | Graduated July 2021*

- Graduated with grade 110/110
- Courses about data science, computer network, database

Aalto University *Exchange studies MSc | August 2019 - January 2021*

- Courses about Artificial Intelligence, Computer Vision and Deep learning
- Final master project supervised by Jaakko Lehtinen (NVIDIA) about Human Pose Estimation applied to climbing videos

Polytechnic University of Turin *BSc in Media Engineering | Graduated October 2018*

- Graduated with grade 106/110
- Courses about computer network, algorithms, media studies, computer graphics

SELECTED PROJECTS AND SKILLS

ML Engineering: PyTorch, end-to-end training pipelines, dataset construction and versioning, experiment tracking, reproducibility tools, LLM fast inference. Still ongoing, thanks to a 10k microgrant.

Interpretability and Safety: white-box tools for AI monitoring, model internal representations (probes and SAEs/ transcoders), alignment in pre-training. **Non-confidentiality projects**: Harmfulness representation across training checkpoints, SAEs from scratch.