

CRISTIAN MEO

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RESEARCH

PhD in Generative AI

Technische Universiteit Delft

📅 October 2021 – Present 📍 Delft, NL

- I am PhD student in CS at TUDelft advised by Prof. Justin Dauwels and Prof. Geert Leus. I'm working on Generative Modeling, Unsupervised Representation Learning and Model based RL.

Research Intern at MILA

Mila - Quebec AI Institute

📅 February 2023 – July 2023 📍 Montreal, CA

- Supervised by **Prof. Yoshua Bengio** and **Anirudh Goyal** (DeepMind). I worked on three projects:
 - Hierarchical World Models (in collaboration with Alex Zakharov)
 - On the relationship between Disentanglement and Diversity.
 - Object-Centric World Models (in collaboration with Aniket Didolkar)

EDUCATION

Master Degree in Bio Robotics

Technische Universiteit Delft

📅 September 2019 – August 2021 📍 Delft, NL

- Graduated cum Laude within the Honours Program.** This excellence program is intended for students who rank in the top 2%, it gave me the chance to follow extra courses and broaden my scope.
- Research Intern at Donders Institute for Brain, Cognition and Behaviour, Radboud University, NL**, where I worked on a Neuro-inspired controller for industrial robots.

Bachelor degree in Mechanical Engineering

Polytechnic of Turin

📅 September 2016 – July 2019 📍 Turin, IT

- Graduated with 110/110
- Participated in the **Young Talent program**: top 2% students rank
- SEC-U Exchange Scholarship Program**:
 - F1 Student team and worked on PID suspension controllers.

SELECTED PUBLICATIONS

- Extreme Precipitation Nowcasting using Transformer-based Generative Models**, **Spotlight** at ICLR 2024 Workshop: Tackling Climate Change with Machine Learning, <https://arxiv.org/html/2403.03929v1>.
- On the relationship between Disentanglement and Diversity**, Poster at ICLR2024, <https://openreview.net/pdf?id=ptXoDePLQo>, (project partially done at Mila).
- Coordination and Environmental Heterogeneity in Cooperative Multi-Agent Reinforcement Learning**, Poster at ICLR2023, https://openreview.net/forum?id=B4maZQLLW0_.

SKILLS

Deep Learning (PyTorch, Tensorflow, JAX), Unsupervised and Object-centric Representation Learning, , Graph Neural Networks, Disentanglement Learning, Multi Agent Model based RL, World Models Robot dynamics and control, ROS, C/C++, Python, Matlab, UNIX.

AWARDS

Young Talent Program

Polytechnic of Turin

📅 Sep 2016 - July 2019 📍 Turin, IT

TU Delft Honours Program

TU Delft

📅 Sep 2019 - Aug 2021 📍 Delft, NL

Research Internship, MILA Scholarship

MILA - Quebec AI Institute

📅 Feb 2023 - July 2023 📍 Montreal, CA

OTHER EXPERIENCES

Mentoring/Team Lead

Technische Universiteit Delft, NL

📅 October 2022 📍 Delft, NL

Since the beginning of my PhD I supervised over **25 Master students** and mentored **4 PhD students**.

Deep Learning Instructor

Technische Universiteit Delft, NL

📅 October 2022 📍 Delft, NL

I am the teacher of the Deep Learning practicals section of EE4685 Machine learning, a Bayesian perspective at TUDelft.

REFEREES

Prof. Justin Dauwels

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✉ HB 17.070, TUDelft

LANGUAGES

Italian
English
French

Native
Advanced (C1/C2)
Elementary (A2)