pardo **Debenedetti**

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Education

EPFL - Federal Institute of Technology Lausanne

Lausanne, Switzerland

MSc in Computer Science

Sep. 2019 - Mar. 2022 (Expected)

- GPA 5.41/6, focus on Machine Learning ∩ Security ∩ Privacy.
- · Working on a standardized benchmark for Adversarial Robustness at Prof. Flammarion's TML Lab.
- Worked on a **research** project about **deepfakes** counteraction via influence functions at **Prof. Troncoso**'s SPRING Lab.

PoliTo - Turin Polytechnic University

Turin, Italy

BSc in Computer Engineering

Sep. 2016 - Jul. 2019

- GPA 28.4/30, graduation mark 110/110, top 9%.
- Exchange year at 同济大学 (Tongji University), in Shanghai (China), supported by a full scholarship granted to the top 31% applicants.

Navy Military College "F. Morosini"

Venice, Italy

HIGH SCHOOL DIPLOMA

Sep. 2013 - Jul. 2016

- Selected to lead sophomores as **prefect** during my final year.
- Military training on Italian Navy's Ships and at Italian Navy's Marine Corps.

Experience

Bloomberg LP London, UK

SOFTWARE ENGINEERING INTERN

Jul 2021 - Sep. 2021

• Incoming Software Engineering Intern, project TBD in the next few months.

armasuisse Cyber-Defence Campus

Lausanne, Switzerland

RESEARCH INTERN

Aug. 2020 - Feb. 2021

· Conducted research about Machine Unlearning and Membership Inference Attacks against Generative Models under the supervision of Dr. Mathias Humbert. Tools: PyTorch, PyTorch Lightning, Comet ML, and Python.

Reply Turin, Italy

SOFTWARE ENGINEERING INTERN

Nov. 2018 - Feb. 2019

- Developed a chatbot that answers questions about GDPR law, using TypeScript, Redis, MongoDB, IBM Watson Assistant, and Docker.
- Worked on RPA, using Python. One of the bots I developed decreased a task duration by 88%, without requiring human intervention in it.

Projects

Counteracting DeepFakes

Graded 5.75/6

- Term Research Project run at Prof. Troncoso's SPRING Lab at EPFL.
- Attempt to run poisoning attacks via Influence Functions (by Koh et al.) to counteract DeepFakes training.
- The attack was tested on MNIST-trained autoencoder and shown major distortions in the decoder outputs after the poisoned training.
- Stack: PyTorch, TensorFlow and Keras, on top of Python.

NeurIPS 2019 Reproducibility Report

Graded 6/6

- Reproducibility report of a NeurIPS 2019 paper about black-box adversarial attacks against ML models, submitted to the NeurIPS 2019 Reproducibility Challenge.
- With our re-implementation we reduced by 76% the median attack time wrt the paper. Stack: Python, PyTorch, MFX.

Extra

MENTEE

JEToP (PoliTo's Junior Enterprise)

Turin, Italy

INTERNATIONAL MANAGER

Oct. 2018 - Jun. 2019

- Executive board member responsible for external relations of the Junior Enterprise. Signed 8 new partnerships.
- Past positions (since Oct. 2016): Fundraising & Partnership Assistant, IT Consultant.

LeadTheFuture

• Selected to be part of the **leading mentorship organization for STEM students in Italy** - Acceptance rate < 20%.

Sept. 2019 - Current

- Held a mentoring session about MSc admissions at EPFL.

Languages _____

• English: Fluent, TOEFL iBT 108/120, C1. • Italian: Native speaker. • French: Intermediate.