Dario Pasquini, Ph.D.

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About me: I'm a Deep Learning enthusiast and coder; looking for **Security and Privacy** through the lens of Machine Learning.

[**10/2021 - today**] **Postdoctoral Researcher:**
École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
Security and Privacy Engineering Laboratory

[**02/2021 - 09/2021**] **Research Fellow:**
Institute for applied mathematics "Mauro Picone" (IAC-CNR), Italy

[**07/2021**] ***Ph.D.*** **in Computer Science:**
Sapienza University of Rome, Italy
Advisor: *Massimo Bernaschi*

[**03/2019 - 03/2020**] **Visiting Researcher**:
Stevens Institute of Technology, USA
Advisor: *Giuseppe Ateniese*

[**11/2017**] **Master's degree** in **Computer Science**:
Sapienza University of Rome, Italy
Final Grade: *110/110 cum laude*
Program of Study: *Network and Security*

Main research topics:

- Security & Privacy in Machine Learning.
- Password Security.

Preferred Tools:

1. python, TensorFlow.
2. C/C++, CUDA C++, MPI.

Publications:

[1] **Dario Pasquini**, Danilo Francati, Giuseppe Ateniese. *Eluding Secure Aggregation in Federated Learning via Model Inconsistency.* ACM Conference on Computer and Communications Security (CCS '22), November 2022

[2] **Dario Pasquini**, Giuseppe Ateniese, Massimo Bernaschi. *Unleashing the Tiger: Inference Attacks on Split Learning.* ACM Conference on Computer and Communications Security (CCS '21), November 2021

[3] **Dario Pasquini**, Marco Cianfriglia, Giuseppe Ateniese, Massimo Bernaschi. *Reducing Bias in Modeling Real-world Password Strength via Deep Learning and Dynamic Dictionaries.* 30th USENIX Security Symposium (USENIX Sec '21), August 2021

[4] **Dario Pasquini**, Ankit Gangwal, Giuseppe Ateniese, Massimo Bernaschi, Mauro Conti. *Improving Password Guessing via Representation Learning.* 42th IEEE Symposium on Security and Privacy (S&P '21), May 2021.

[5] **Dario Pasquini**, Giuseppe Ateniese, Massimo Bernaschi. *Interpretable probabilistic password strength meters via deep learning.* 25th European Symposium on Research in Computer Security (ESORICS '20), September 2020.

[6] **Dario Pasquini**, Marco Mingione, Massimo Bernaschi. *Adversarial out-domain examples for generative models.* IEEE European Symposium on Security and Privacy Workshops, EuroS&P Workshops '19

[7] Massimo Bernaschi, Pasqua D'Ambra, **Dario Pasquini**. *AMG based on compatible weighted matching for GPUs.* Parallel Computing, 2020.

[8] Massimo Bernaschi, Pasqua D'Ambra, **Dario Pasquini**. *BootCMatchG: An adaptive Algebraic MultiGrid linear solver for GPUs.* Software Impacts, 2020.