

Dario Pasquini, Ph.D.

19/09/1991, Rome

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[10/2021 - today] **Postdoctoral Researcher:**

École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
Security and Privacy Engineering Laboratory (SPRING)
Lab lead: Carmela Troncoso

[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*

[2018] **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.

Things I’m good at and I enjoy using too:

1. python, TensorFlow.
2. C, CUDA C++.
3. Perl (at least, I used to).

Publications:

- [1] **Dario Pasquini**, Mathilde Raynal, Carmela Troncoso. *On the (In)security of Peer-to-Peer Decentralized Machine Learning*. 44th IEEE Symposium on Security and Privacy (S&P ’23), May 2023
- [2] **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
- [3] **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
- [4] **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
- [5] **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.

- [6] **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.
- [7] **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
- [8] Massimo Bernaschi, Pasqua D'Ambra, **Dario Pasquini**. *AMG based on compatible weighted matching for GPUs*. Parallel Computing, 2020.
- [9] Massimo Bernaschi, Pasqua D'Ambra, **Dario Pasquini**. *BootCMatchG: An adaptive Algebraic MultiGrid linear solver for GPUs*. Software Impacts, 2020.