# Dario Pasquini

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

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

**[ 2019 - 2020 ] Visiting Researcher**:
Stevens Institute of Technology, Hoboken, USA
Referent: *Giuseppe Ateniese*

**[ 2017 - today ] *Ph.D* Candidate in Computer Science:**
Department of Computer Science; *Sapienza* University of Rome, Italy
Advisor: *Massimo Bernaschi*

**[ 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:**

1. Password Security.
2. Adversarial Machine Learning.
3. High Performance Computing$\rightarrow$GPGPU.

**Preferred Tools:**

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

**Personal projects:**

- https://pasquini-dario.github.io/DeepPasswd

**Publications:**

[1] **Dario Pasquini**, Giuseppe Ateniese, Massimo Bernaschi. *Unleashing the Tiger: Inference Attacks on Split Learning.* ACM Conference on Computer and Communications Security (CCS21), November 2021

[2] **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

[3] **Dario Pasquini**, Ankit Gangwal, Giuseppe Ateniese, Massimo Bernaschi, Mauro Conti. *Improving Password Guessing via Representation Learning.* In 42th IEEE Symposium on Security and Privacy (S&P21), May 2021.

[4] **Dario Pasquini**, Giuseppe Ateniese, Massimo Bernaschi. *Interpretable probabilistic password strength meters via deep learning.* In 25th European Symposium on Research in Computer Security (ESORICS20), September 2020.

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

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

[7] **Dario Pasquini**, Marco Mingione, Massimo Bernaschi. *Adversarial out-domain examples for generative models.* In 2019 IEEE European Symposium on Security and Privacy Workshops, EuroS&P Workshops 2019