Giulio Pagnotta

Current position

nov.'19 – now	**PhD Student in Computer Science**.
university	*Sapienza University of Rome, Italy*
research area	*Machine Learning and Security*

Education

2019	**Master of Science in Cybersecurity**.
university	*Sapienza University of Rome, Italy*
thesis title	Evading Ransomware: Techniques, Principles, and Examples
final grade	110/110 with honors

2017	**Bachelor in Computer Science**.
university	*Sapienza University of Rome, Italy*
thesis title	*ADARCH: A New Software Architecture to Make the Development of Active Defense Tools Easier*
final grade	110/110

Extracurricular

5 – 14 may.'21	**PhD Course in Data Science**, *16 hours of classes held by Prof. Simone Scardapane.*
university	*Sapienza University of Rome, Italy*
topic	*Reproducible Deep Learning*

4 jan. – 9 jan.'21	**PhD Summer School**, *19 hours of classes and two one and a half hour poster sessions. The program is on ds3-datascience.*
university	*École polytechnique, France*
topic	*Data Science*

jul.'20	**Deep Learning Specialization**.
	The Deep Learning Specialization consists of approx. 125 hours of online classes divided into five courses covering theoretical background and practical applications of deep learning techniques.
	Coursera

Experience

Research Projects

Oct.'20 –	**Task Leader**.
university	*Sapienza University of Rome, Italy*
project	***Gen4Olive*** *European Union's Horizon 2020 research and innovation programme (Grant Agreement No. 101000427)*
task	*T6.4: Design, implementation of machine learning techniques.*

Teaching Positions

jan.'21 – sept.'21	**Teaching Assistant**, Sapienza University of Rome, Italy. *Data and Network Security, Master Degree course in Computer Science.*
nov.'20 – dec.'20	**Teaching Assistant**, Ministero dell'Istruzione, Università e Ricerca, Italy. *20 hours of lectures on Ethical Hacking.*
jan.'20 – sept.'20	**Teaching Assistant**, Sapienza University of Rome, Italy. *Data and Network Security, Master Degree course in Computer Science.*

Scholarships and Awards

nov.'19 – oct.'22	**PhD Scholarship**.
funding	*Computer Science Department*, Sapienza University of Rome, Italy.
jul.'20	**Third Place (AUTENTICA team member)**, *Open Innovation Challenge on "Innovative authentication for mobile devices".*
funding	*Telsy and Regione Lazio*
may.'20	**High Academic Honour Certificate *(Laureato Eccellente)***, *for being among the best graduates of the academic year 2018-2019, Sapienza University of Rome.*

Languages

native	Italian
fluent	English

Publications

[1] Fabio De Gaspari, Sushil Jajodia, Luigi V. Mancini, and Giulio Pagnotta. **Towards Intelligent Cyber Deception Systems** Book: Autonomous Cyber Deception , pp.21-33.

[2] Fabio De Gaspari, Dorjan Hitaj, Giulio Pagnotta, Lorenzo DeCarli, and Luigi V. Mancini. **The Naked Sun: Malicious Cooperation Between Benign-Looking Processes** 18th International Conference on Applied Cryptography and Network Security (ACNS 2020).

[3] Fabio De Gaspari, Dorjan Hitaj, Giulio Pagnotta, Lorenzo DeCarli, and Luigi V. Mancini. **A Comprehensive Analysis of Detection and Evasion Techniques for Multiprocess Ransomware** submitted for publication.

[4] Fabio De Gaspari, Dorjan Hitaj, Giulio Pagnotta, Lorenzo DeCarli, and Luigi V. Mancini. **En-CoD: Distinguishing Compressed and Encrypted File Fragments** 14th International Conference on Network and System Security (NSS2020).

[5] Fabio De Gaspari, Dorjan Hitaj, Giulio Pagnotta, Lorenzo DeCarli, and Luigi V. Mancini. **Reliable Detection of Compressed and Encrypted Data** submitted for publication.

[6] Dorjan Hitaj, Giulio Pagnotta, Iacopo Masi, and Luigi V. Mancini. **Evaluating the Robustness of Geometry-Aware Instance-Reweighted Adversarial Training** submitted for publication.

[7] Giulio Pagnotta, Dorjan Hitaj, Fabio De Gaspari, and Luigi V. Mancini. **PassFlow: Guessing Passwords with Generative Flows** submitted for publication.