

Actual position and professional experience

July 2020 - now

Andrea Venturi

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Born on: January 3rd, 1994

Research Grant

"Machine Learning for cyber security", junior research grant at Interdepartment Research Center on Security and Safety (CRIS), Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia.

• Tutor: Prof. Michele Colajanni

Education and Qualifications

November 2020 - now

PhD Student

"Novel methodologies for the cybersecurity of the future", International Doctorate in Information and Communication Technologies (ICT), Cycle XXXVI, Computer Engineering and Science Curriculum, Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia.

• Tutor: Prof. Michele Colajanni

2020 Master's Degree in Computer Engineering

Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia, Modena, Italia

- 7 Aprile 2020
- Curriculum: Intelligent Cyber Systems
- Graduation mark: 110/110 cum Laude
- Thesis: Sistema di Reinforcement Learning per contrastare l'efficacia di adversarial attack a Intrusion Detection System
- Advisor: Prof. Michele Colajanni
- Co-Advisor: Ing. Giovanni Apruzzese

2017 Bachelor's Degree in Computer Science

Department of Physics, Computer Science and Mathematics, University of Modena and Reggio Emilia, Modena, Italia

- 19 Aprile 2017
- Graduation mark: 108/110
- Thesis: Sistema di memorizzazione distribuito e scalabile per libreria di analisi dati in Python
- Advisor: Prof. Michele Colajanni
- Co-Advisor: Ing. Alessandro Guido
- 2020 License to practice the profession of Engineer

Information Engineer Section A

Teaching activities

December 2021

Seminar "Adversarial Machine Learning in Cybersecurity"

- Course: Cybersecurity (english) Master's Degree in Computer Engineering University of Bologna
- November 2021 Seminar "ML for Malware and Network Intrusion Detection"
 - Course: Cybersecurity (english) Master's Degree in Computer Engineering University of Bologna

December 2020	Seminar "Machine Learning for Cybersecurity"
	 Course: Computer Security - Master's Degree in Computer Engineering - University of Modena and Reggio Emilia
Academic activities	
2021	 Technical Committee member IEEE Network Computing and Applications (NCA) [2021];
2020 - now	Reviewer
	 IEEE Network Computing and Applications (NCA) [2020 - 2021]; IEEE Transaction on Network and Service Management (TNSM) [2021]; Elsevier Journal of Information Security and Applications (JISAS) [2021];
Publications	
OL:IL.	 A. Venturi, C. Zanasi. "On the feasibility of adversarial machine learning in malware and network intrusion detection." <i>IEEE Network Computing and Applications (NCA), November 2021.</i> G.Apruzzese, M. Andreolini, M. Marchetti, A. Venturi, M. Colajanni. "Deep Reinforcement Adversarial Learning against Botnet Evasion Attacks." <i>IEEE Transactions on Network and Service Management, December 2020</i> A. Venturi, G.Apruzzese, M. Andreolini, M. Colajanni, M. Marchetti. "DReLAB - Deep REinforcement Learning Adversarial Botnet: A benchmark dataset for adversarial attacks against botnet Intrusion Detection Systems." <i>Elsevier Data in Brief, February 2021</i>
Skills	
Lingue	 Italian - Native English - Proficient Spanish - Advanced
Technical Skills	Operating Systems: GNU/Linux e Windows
	 Programming skills C, C++, Java, Python, Javascript Experience in designing and implementing of state-of-the-art level Intrusion Detection Systems leveraging modern Machine Learning techniques. Experience in treating big data and analyzing them through ad-hoc algorithms and modern techniques. Experience in designing and implementing modern Computer Vision techniques for Image/Video Recognition, Segmentation and Tracking.
Research Interests	 Big data security analytics Machine and Deep Learning for cybersecurity Adversarial Machine Learning Explainable AI in Cybersecurity