




CONTACTS  Edoardo Di Paolo  
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INFORMATION

EXPERIENCES **Visiting Scholar, Indiana University in Bloomington** January 2025 - June 2025  
*Research on social bots at the Luddy Center for Artificial Intelligence under the supervision of professors Filippo Menczer and Alessandro Flammini.*

**Teaching Assistant at “La Sapienza”, University of Rome** October 2023 - February 2024  
*Teaching assistant for the course “Programming” (python).*

**Artisan Summer School, Austrian Institute Technology (AIT)** July 2023  
*Topics: Artificial Intelligence and Machine Learning with regards to security and safety applications.*

**Research Scholar at “La Sapienza”, University of Rome** May 2022 - October 2022  
*Analysis and testing of new attacks on the IPv6 protocol.*

EDUCATION **“La Sapienza”, University of Rome & Luiss Guido Carli** November 2022 - 2025  
*Ph.D. in Cybersecurity in collaboration with Luiss Guido Carli.*

**“La Sapienza”, University of Rome** December 2020 - October 2022  
*Master of Science in Computer Science, 110/110 cum Laude  
Thesis: “Bot Detection Leveraging Image Techniques”*

**“La Sapienza”, University of Rome** September 2017 - December 2020  
*Bachelor’s degree in Computer Science, 101 / 110  
Thesis: “Analysis of security issues of MQTT protocol”*

**Liceo classico “Pilo Albertelli”** September 2011 - July 2016  
*Classical studies*

TECHNICAL SKILLS **Programming Languages:** Python, PHP, SQL, C, C++, C#, XML, JSON, Java, Javascript, Lua, TypeScript  
**Frameworks and libraries:** Laravel, Django, ns3, Angular, Codeigniter, Spark, PyTorch, Pandas, socket.io, React, PyTorch Lightning  
**Softwares and others:** AWS, Git, Docker, VirtualBox, Office, Apache, IIS, nginx, Cloudflare, Telegram APIs, Twitch APIs, LaTeX, MongoDB, Node.js, MySQL, PostgreSQL, GraphQL, Bluesky API

PUBLICATIONS **Edoardo Di Paolo, Fabio De Gaspari, Angelo Spognardi.** “BotHash: Efficient and Training-Free Bot Detection Through Approximate Nearest Neighbor”. *Arxiv*.

**Edoardo Di Paolo, Marinella Petrocchi, Angelo Spognardi.** “Detection of LLM-powered bots using image classification”. *FirstMonday, May 2025*.

**Enrico Bassetti, Edoardo Di Paolo, Francesco Drago, Mauro Conti, Angelo Spognardi.** “Opening Pandora’s Packet: Expose IPv6 Implementations Vulnerabilities Using Differential Fuzzing”, *International Conference on Applied Cryptography and Network Security - 2025, 23-26 June, Munich*.

**Edoardo Allegrini, Edoardo Di Paolo, Marinella Petrocchi, Angelo Spognardi.** “Deciphering Social Behaviour: a Novel Biological Approach For Social Users Classification”, *ACM/SIGAPP Symposium On Applied Computing - 2025, 31 March - 4 April, Catania*.

**Edoardo Allegrini, Edoardo Di Paolo, Marinella Petrocchi, Angelo Spognardi.** “Deciphering Social Identity: a Novel Genetic Approach For Social Users Classification”, *International Conference on Discovery Science - 2024, 14-16 October, Pisa*.

**Edoardo Di Paolo, Enrico Bassetti, Angelo Spognardi.** “A New Model for Testing IPv6 Fragment Handling”, *ESORICS 2023, 25-29 September, The Hague*.

**Edoardo Di Paolo, Angelo Spognardi, Marinella Petrocchi.** “From Online Behaviours to

Images: A Novel Approach to Social Bot Detection”, *International Conference on Computational Science (ICCS)* - 2023, 3-5 July, Prague.

**Edoardo Di Paolo, Enrico Bassetti, Angelo Spognardi.** “Security assesment of common open source MQTT brokers and clients”, *Italian Conference on CyberSecurity (ITASEC)* - 2021, Online.

SECURITY  
ADVISORIES

**CVE-2024-6640:** ICMPv6 packets with identifier value of zero bypass firewall rules written on the assumption that the incoming packets are going to create a state in the state table.

**CVE-2023-4809:** IPv6 fragments may bypass firewall rules written on the assumption all fragments have been reassembled and, as a result, be forwarded or processed by the host.

LANGUAGES

**Italian:** *native proficiency*

**English:** *professional working proficiency*