

SERENA COFANO

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EXPERIENCE

Ph.D. Student

IMT Lucca

📅 December 2022 – Ongoing 📍 Genoa, Italy

Topic: Software Supply Chain security. **Supervisor:** Matteo Dell'Amico, associate professor University of Genoa.

Visiting Ph.D. Student

KTH - Royal Institute of Technology

📅 November 2024 – July 2025 📍 Stockholm, Sweden

Project: Development of a methodology and a prototype to identify dependencies at runtime, in Java applications. The project is in the context of the CHAINS research group. **Supervisor:** Martin Monperrus, Professor of Software Technology at KTH.

Research Scholarship

DIBRIS - University of Genoa, Genoa

📅 August 2022 – January 2023 📍 Genoa, Italy

Scholarship title: "New algorithms for the anonymization of personal data in mobile applications on the Android platform"

Acquired skills

- Android Virtualization
 - ART Instrumentation
 - Anonymization techniques
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Junior Software Developer

Aizoon Consulting, Genoa

📅 May 2021 – May 2022 📍 Genoa, Italy

Work as software developer on several core development projects.

Acquired skills

- Programming skills consolidation
- Teamwork
- Interaction with stakeholders

Main Projects

- Mobile application development - frontend development of a mobile application in javascript and html, customer management.
- Development of a bicycle braking system testing application - Management of data packet exchange between PLC and the application - the main programming language was C#
- Siemens MES (Manufacturing Execution System) customization depending on the type of company that requires it - the main programming language was C#

Internship

Talos, Genoa

📅 March 2020 – November 2020

📍 Genoa, Italy

Internship during the Software Engineering course, performed in the first year of the master's degree in computer engineering. Talos is a cybersecurity SME recognized as a Spin-Off of the University of Genoa.

Acquired Skills

- Angular
 - Writing specification documents
 - Interacting with customers
 - Fulfilling customers' requirements
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EDUCATION

National Ph.D. in Cybersecurity

IMT Lucca

📅 December 2022 - Ongoing

I am currently attending the National Ph.D. in cybersecurity, Curriculum in Software, System, and Infrastructure Security. I conduct my activities under the supervision of Dr. Matteo Dell'Amico, at DIBRIS, University of Genoa.

M.Sc. in Computer Engineering

Unige, University Of Genoa

📅 October 2020 – October 2022

Curriculum "Software Platforms and Cyber Security"

- **Thesis title:** VirtualHideDroid - User data anonymization through virtualization techniques;
 - **Thesis description:** research thesis on data privacy in the android environment, which aims to present a methodology that can anonymize the content of requests to Google Firebase Analytics services, directly from the user's device through android virtualization.
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B.Sc. in Biomedical Engineering

Unige, University Of Genoa

📅 September 2016 – September 2019

- **Thesis title:** Study of the neural correlates of taste;
 - **Thesis description:** Research project aimed at studying brain response to gustatory stimuli by electroencephalogram.
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PUBLICATIONS

Vivi Andersson, Benoit Baudry, Sofia Bobadilla, Ludvig Christensen, **Serena Cofano**, Khashayar Etemadi, Martin Monperrus, Frank Reyes García, Javier Ron Arteaga, Aman Sharma, and Deepika Tiwari.

"Uppercase is All You Need",

SIGBOVIK 2025 (Proceedings), Carnegie Mellon University, Pittsburgh, PA, USA, April 4, 2025

<https://sigbovik.org/2025/proceedings.pdf>

📅 April 2025

Giacomo Benedetti, **Serena Cofano**, Alessandro Brighente, and Mauro Conti
"The Impact of SBOM Generators on Vulnerability Assessment in Python: A Comparison and a Novel Approach",
Proceedings of the International Conference on Applied Cryptography and Network Security (ANCS).
https://doi.org/10.1007/978-3-031-95764-2_19

📅 June 2025

📍 Munich, Germany

Serena Cofano, Giacomo Benedetti, and Matteo Dell'Amico.
"SBOM Generation Tools in the Python Ecosystem: an In-Detail Analysis",
2024 IEEE 23rd International Conference on Trust, Security and Privacy in Computing and Communications
(TrustCom). <https://doi.org/10.1109/TrustCom63139.2024.00077>

📅 December 2024

📍 Sanya, China

ACTIVITIES

Teaching

Teaching Assistant

Computer Security @ Master Degree in Computer Engineering, University of Genoa

📅 November 2023 – March 2024

📍 University of Genoa

Conference and Event attended

Summer School

Summer School on Artificial Intelligence and Cybersecurity

📅 22-26 September 2025

📍 TU Wien, Vienna, Austria

Conference

23rd International Conference on Applied Cryptography and Network Security

📅 23-26 June 2025

📍 Munich Urban Colab, Munich, Germany

Workshop & Poster Session

4th KTH Workshop on the Software Supply Chain 2025

📅 25 April 2025

📍 KTH, Stockholm, Sweden

Conference

**23rd IEEE International Conference on Trust, Security and Privacy in Computing and Communications
(TrustCom24)**

📅 17-21 December 2024

📍 Sanya, China

Conference

ITASEC23 Italian Conference on Cybersecurity

📅 2-5 May 2023

📍 Bari, Italy

LANGUAGES

Italian

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English

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German

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French

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PRIVACY STATEMENT

I hereby give consent for my personal data included in the application to be processed for the purposes of the evaluation process in accordance with Art. 6 paragraph 1 letter a of the Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).

Genoa, October 1st, 2025