

Marco Negro

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Summary

I am a researcher and Computer Engineering student, and I have previously worked as a Cyber-Security Specialist for several years. My research interest is in System Security. Currently, I am exploring fuzzing techniques to detect microarchitectural leaks and side-channel vulnerabilities. Additionally, I am the founder of the 'Meethack Torino' hackerspace.

Work Experience

Research intern

IMDEA SOFTWARE INSTITUTE

Advisor: Prof. Marco Guarnieri

Researching and developing novel fuzzing techniques to enhance current state-of-art CPU microarchitectural fuzzers.

Madrid, Spain

Sep. 2024 - Present

Cyber Security Specialist (Penetration Tester)

SK IT CYBER SECURITY

Worked with leading global and European companies in IoT manufacturing, networking devices, automotive, telecom, and banking, providing top-tier security evaluations. Conducted in-depth research and penetration tests with a strong focus on IoT security, alongside comprehensive assessments in network, infrastructure, web, and mobile AppSec (WAPT).

Played a key role in developing a custom CAN-bus fuzzer and executing reverse engineering and firmware exploitation projects for top-tier automotive clients. Led vulnerability research initiatives for prominent telecom and networking equipment providers.

Turin, Italy

Jan. 2021 - Aug. 2024

Intern

SK IT CYBER SECURITY

Researched emerging threats and trends while assisting in penetration tests alongside senior team members.

Turin, Italy

Oct. 2020 - Dec. 2020

Education

Master of Science (Part-time), Computer Engineering

POLYTECHNIC UNIVERSITY OF TURIN

- Thesis: Exploring Microarchitectural Leakage through Fuzzing
- Advisors: Prof. Marco Guarnieri, Prof. Ernesto Sanchez

Turin, Italy

Expected Mar. 2026

Bachelor of Science, Computer Engineering

POLYTECHNIC UNIVERSITY OF TURIN

Turin, Italy

Oct. 2021

Honors & Awards

PUBLICLY DISCLOSED VULNERABILITIES

CVE-2024-9054 (Remote Code Execution), **CVE-2024-7801** (Unauthenticated SQL Injection), **CVE-2024-43687** (Stored XSS), **CVE-2024-43686** (Reflected XSS), **CVE-2024-43684** (Cross-Site Request Forgery), **CVE-2024-43683** (Open Redirect), **CVE-2024-43685** (Session Token Fixation)

SCHOLARSHIPS & FELLOWSHIPS

- 2025 **École Polytechnique Fédérale de Lausanne (EPFL)**, 500 CHF fellowship, SuRI on Security, Systems, and Formal Methods
- 2024 **The Hong Kong Polytechnic University (PolyU)**, 10000 HKD allowance, International Research Summer School
- 2024 **ACM & National University of Singapore (NUS)**, tuition covered, Fuzzing and Software Security Summer School

Summer Schools

SuRI on Security, Systems, and Formal Methods

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)

Lausanne, Switzerland

June 2025

International Research Summer School

THE HONG KONG POLYTECHNIC UNIVERSITY

Hong Kong S.A.R.

Jul. 2024

Fuzzing and Software Security Summer School

NATIONAL UNIVERSITY OF SINGAPORE

Singapore, Singapore

May 2024

Extracurricular Activities

Meethack Torino hackerspace

FOUNDER & ORGANIZER

Turin, Italy

Jan. 2019 - Present

- Organize and guide technical campaigns on 0-day vulnerability research and N-day development
- Train participants on various security topics through CTF competitions and talks
- Organize and manage events, website, public relations, and internal administration

Projects & Software Artifacts

• Control-Flow Integrity with Pointer Authentication

A novel PAC-SW solution. A software implementation based on a GCC plug-in and a Linux kernel module that emulates Control-Flow Integrity with ARM Pointer Authentication on Intel x86-64 architecture.

Languages

Italian Native

English Business

Spanish Intermediate

Volunteering

Children Educator

SAN SECONDO PARISH

Givolotto, Italy

2010-2016