CONTACT

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Via Sandro Pertini 12,
Montalto Dora (TO)

29/07/2002, Ciriè (TO)

LANGUAGES

- Italian (Native Language)
- English (C1, Cambridge)

TECHNICAL SKILLS

- Mathematics:
  - Analysis
  - Geometry
  - Statistics and Probability
  - Algebra
- Applied Cryptography
- Cybersecurity
  - Network and Cloud Security
  - Wireless Security
  - Hardware Security
  - Web Application Security
  - Cyber Law and Regulations
- Programming Languages
  - C, C++, C#, Java, Rust
  - Python
  - JavaScript, JSX
  - R

MARCO SIMONCINI

MATHEMATICS GRADUATE AND
CYBERSECURITY MASTER'S STUDENT

PROFILE

Mathematics graduate with a strong foundation in cryptography and problem-solving. Passionate about cybersecurity, particularly the gap between cryptographic theory and real-world implementation. Experienced in AI, supported by a scholarship from the Elicsir Foundation. Currently pursuing a Master's in Cybersecurity at Politecnico di Torino, aiming to become a future CISO.

EDUCATION

Master's Degree in Cybersecurity 2024 - PRESENT
Politecnico di Torino

Currently in the final year of a Master's Degree in Cybersecurity (Computer Engineering), specializing in the Cyber Legal and Compliance Officer track at the Politecnico di Torino, with excellent academic results.
skills: Programming (rust, JavaScript, JSX), network security, applied cryptography, ethical hacking

Bachelor's Degree in Mathematics 2021-2024
University of Trento

Graduated with honors (110/110 cum laude) in Mathematics from the University of Trento.
Skills: Advanced programming (Python, C++, Java, R), problem solving

High School Diploma in Applied Sciences 2016-2021
A. Gramsci Scientific High School

Graduated with top marks (100/100) in Applied Sciences from A. Gramsci Scientific High School.
Skills: Leadership, teamwork, time management

RECOGNITIONS

Scuola Ortogonale Scholarship 2024 - PRESENT
ELICSIR Foundation

Awarded a prestigious two-year scholarship by the ELICSIR Foundation, supported by Schmidt Sciences. The Scuola Ortogonale is a national excellence program in computer science, reserved for only 20 top Master's students from Italian public universities in fields such as Artificial Intelligence, Cybersecurity, and Data Science. It features high-level seminars, workshops, research projects, and direct engagement with prominent figures in academia, international research, and the startup ecosystem.

CyberChallenge.IT 2023-2024
Cybersecurity National Lab

Selected to participate in CyberChallenge.IT, a highly competitive national cybersecurity training program for university students, organized by the Cybersecurity National Lab.

Excellence Program in Mathematics 2018-2021
Subalpina Mathesis

Selected for three consecutive years to join the Subalpina Mathesis Association's Excellence Program in Mathematics, held in Bardonecchia and dedicated to deserving high school students. Achieved first place in the final-year team competition.

MARCO SIMONCINI

WORK EXPERIENCE AND ACADEMIC PROJECTS

Cloud Threats and CUBBIT Security Implementation 2025-PRESENT

Cubbit

Conducted a research project in collaboration with Cubbit, an Italian startup specializing in distributed cloud storage. The project involved writing a technical report analyzing major cloud security threats and evaluating the countermeasures implemented by the company over the eight years since its foundation. The work combined theoretical analysis with real-world insights from Cubbit's approach to cybersecurity, data redundancy, and decentralized infrastructure.

AI Game Engine Development Project 2024-PRESENT

Scuola Ortogonale Scholarship

Selected for an elite research initiative funded by the Scuola Ortogonale scholarship to develop an AI engine capable of playing the board game Hive, using the Universal Hive Protocol. Working in a two-person team, we are designing and implementing the engine with techniques from machine learning, deep learning, and game tree search algorithms (e.g., Minimax). The project includes GPU-accelerated training and will culminate in a competitive tournament among participating teams. Mentored by experts from Oxford, Google, and top Italian universities.

Computer Architecture and Operating Systems Project 2024

Politecnico di Torino

Worked in a team to emulate an unsupported hardware architecture (NXP S32K3X8EVB) using QEMU, and successfully ported FreeRTOS to the virtual environment. Developed a simple multitasking application to validate the setup and documented the entire process. Gained experience with embedded systems, open-source development, and project collaboration using Git. Final deliverables included a public Git repository, a detailed tutorial, and a group presentation.

CyberAcademy – Fortinet Certification Preparation 2024

Spike Reply

Selected for the exclusive CyberAcademy program organized by Politecnico di Torino in collaboration with Spike Reply. Participated in specialized seminars focused on the preparation for Fortinet certifications, covering both theoretical foundations and practical configuration of cybersecurity solutions. Gained hands-on experience with Fortinet tools and enhanced skills in network security, threat detection, and firewall management as part of a vendor-certified learning path.

Bachelor's Thesis – Primality Testing: Rabin-Miller and AKS Algorithms 2024

University of Trento

Focused on two fundamental primality testing algorithms: the probabilistic Rabin-Miller test and the deterministic AKS algorithm. The thesis explored the underlying algebraic theory, including number theory and polynomial structures, and analyzed the computational and practical implementation limits of both approaches. The project emphasized the trade-offs between mathematical rigor and real-world efficiency in cryptographic applications.

SOFT SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Critical Thinking