

# Dario FERRERO

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## EDUCATION

### MSc. In Digital Security

Sep. 2021 – Sep. 2023

*EURECOM, Sophia Antipolis, France*

• **Main Subjects:** Systems and Network Security, Mobile Security, Malware Analysis and Computer Forensics, Big Data Privacy, Distributed Systems and Cloud Computing, Software Defined Networking, 5G, IoT and Wireless Protocols, Machine Learning.

• **Non-Technicals:** Project and Business Management, Team Leadership.

• **Research / Semester Projects:**

- Fall 2021 – Machine Learning for Autism Spectrum Disorder Diagnosis
- Spring 2022 – Security Analysis of Bluetooth Mesh
- Fall 2022 – SemNIDS: Semantics Applied to Network Intrusion Detection Systems

### BSc. In Computer Science – 108/110

2017 – 2021

*Università degli Studi di Torino, Turin, Italy*

- Languages and Systems track
- Erasmus Semester – University of Groningen, Netherlands (Fall 2019)
- Bachelor Thesis: “*Translating Natural Language questions to SQL queries*”

## PROFESSIONAL EXPERIENCE

### Software Engineer Intern – Workload Identity in a Cloud Environment

Mar. – Sep. 2023

*Amadeus IT Group S.A., Villeneuve-Loubet, France*

- Conducted state of the art study between Workload Identity solutions
- Designed complementary architecture to enable Workload Identity Federation on Amadeus Cloud Platforms
- Performed initial testing for Authentication of Workloads running on Cloud Environments

### Summer Intern – 5G Core Network Software Developer

Jul. – Sep. 2022

*OpenAirInterface Software Alliance, Sophia Antipolis, France*

- Developed Event Exposure and Service APIs for 5G Core Network Functions (AMF, SMF, UDR)
- Applied testing with simulated User Equipment. Contributed to integration in OAI open-source project

## EXTRACURRICULAR ACTIVITIES

### CyberChallenge IT

Mar. – Jul. 2021

*Politecnico di Torino, Turin, Italy*

- Completed Cybersecurity program based on Capture the Flag (CTF) challenges – Web Security, Binary Exploitation, Cryptography
- Participated to inter-university “Jeopardy-style” and “Attack-and-Defense” competitions

### BountyConEdu 2022

Apr. 2022

*Madrid, Spain*

- Attended workshops on Native and Mobile Security, Web Security
- Took part in bug hunting team competition on Meta (Facebook) products and open-source projects

### TRACS - Tournoi de Renseignement et d'Analyse de CentraleSupélec

Dec. 2022

*Paris-Saclay, France*

## SKILLS

**Software Languages:** Python, C, C++, Bash scripting and Data Wrangling, SQL, Java

**Environments and Tools:** GNU / Linux, Wireshark / tshark, Kubernetes, Docker, Microsoft Azure, BurpSuite, Ghidra, Android

**Languages:** English (CAE – C1 Level), French (Intermediate), Italian (Native)