

# Dario FERRERO

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I'm a second-year PhD candidate investigating passive and reactive techniques for security applications of Internet Measurements, with the objective of bridging the gap between generalizable and insightful service emulation and Cyber Threat Intelligence gathering. I am part of the Delft Threat Intelligence Lab at the Delft University of Technology (TU Delft) and work under the supervision and mentorship of Prof. Harm Griffioen and Prof. Georgios Smaragdakis.

## PUBLICATIONS

- **Dario Ferrero**, Enrico Bassetti, Harm Griffioen, and Georgios Smaragdakis. 2025. *Have you SYN What I See? Analyzing TCP SYN Payloads in the Wild*. In Proceedings of the 2025 ACM Internet Measurement Conference (IMC '25), Oct. 27 – 31, Madison, WI, USA. Association for Computing Machinery, New York, NY, USA, 928–936. <https://doi.org/10.1145/3730567.3764498>
- **Dario Ferrero**, Georgios Smaragdakis and Harm Griffioen. 2025. *Revealing Informed Scanners by Colocating Reactive and Passive Telescopes*. (to appear in) Proceedings of the 28th International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2025), Oct. 19 – 22, Gold Coast, Australia. <https://gsmaragd.github.io/publications/RAID2025/>

## 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 software workload IAM 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

## EDUCATION

### PhD Candidate – Internet Measurements and Systems for Cybersecurity

May 2024 – ongoing

*Delft University of Technology, Delft, Netherlands*

- Research Activities
  - Investigated secondary infrastructure of Internet Scanners by analyzing Passive and Reactive Network Telescope traffic
  - Analyzed in depth relevant corner cases of Internet Background Radiation traffic
  - Correlated botnet command records to real-time Netflow data for attack size estimation
- Teaching Activities
  - Lab Session TA – *Network Security*, Q4 2024-25
  - Project Group Supervision – *Hacking Lab*, Q4 2024-25

### MSc. In Digital Security

Sep. 2021 – Sep. 2023

*EURECOM Institute, 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.
- **Semester Research 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
- **Extracurriculars:**
  - Tournoi de Renseignement et d'Analyse de CentraleSupélec (*Paris-Saclay, France*) – CTF by the French DGSE
  - Meta BountyConEdu 2022 (*Madrid, Spain*) – Bug bounty event on Meta products and open-source projects

### BSc. In Computer Science

2017 – 2021

*Università degli Studi di Torino, Turin, Italy*

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

- CyberChallenge IT 2021 – Three-month intro to Cybersecurity course through Capture the Flag (CTF) challenges: Web Security, Binary Exploitation, Cryptography, Reverse Engineering, Network Traffic Analysis.  
Participation to inter-university “Jeopardy-style” and “Attack-and-Defense” competitions.

## **SKILLS**

**Networks and Security:** Wireshark, gopacket, Snort IDS, Zeek, nDPI, Netflow

**Data Analysis:** Clickhouse, pandas, seaborn

**Software Languages:** Go, Python, C, C++, SQL, bash

**Environments:** GNU / Linux, Kubernetes, Docker, Vagrant, Microsoft Entra ID

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