



# Matteo Rizzi

matteo@rizzi.xyz



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## Bachelor in Computer Science, Junior Research Scientist

Born in 1998, 30 September, I work as a Junior Research Scientist in the [Security and Trust](#) unit at [Fondazione Bruno Kessler](#). I joined the S&T unit to explore and improve TLS analysis and delve into identity management. I am working concurrently between FBK and the Istituto Poligrafico e Zecca dello Stato.

## Experiences

### Fondazione Bruno Kessler (Trento, Italy)

*Junior Research Scientist • Feb, 2021 - Present*

Security analysis of the TLS deployments of [IPZS](#) projects, TLS Analysis in Android Apps and TLS tool enhancement within the Security & Trust research unit.

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*Internship • Feb, 2020 - May, 2020*

Study and improvement of TLS analysis tools within the Security & Trust research unit.

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### Futuro & Conoscenza S.r.l. (Trento & Rome, Italy)

*Junior Research Scientist • Jul, 2021 - Present*

Collaboration between [Fondazione Bruno Kessler](#) and [IPZS](#) to promote the exchange of know-how and competences in the field of security technologies (material and digital) such as identification and anti-counterfeiting, as well as the creation of a center for the coordination and exploitation of research.

## Papers

### **A modular and extensible framework for securing TLS**

*in 12th ACM Conference on Data and Application Security and Privacy, CODASPY • Apr, 2022*

Matteo Rizzi, Salvatore Manfredi, Giada Sciarretta, Silvio Ranise.

## Projects

### **breaking-telegram**

*PoC script to break Telegram • 2021*

Simple PoC script that allows you to exploit telegram's "send with timer" feature by saving any media received with this functionality, automatically.

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### **TLSAssistant**

*Version 1.3 and 2.0 to 2.3 • 2020 - Present*

Fully-featured tool that combines state-of-the-art TLS analyzers with a report system that suggests appropriate mitigations and shows the full set of viable attacks.

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### **iHashDNA**

*Perceptual hashing library in python • 2020 - Present*

Python library to easily check if two images are similar without machine learning by using Perceptual Hashing (phash and whash combined), with ban and unban image system.

## Minor Works

### Mallodroid

*Conversion in Python 3 and enhancements • 2020 - 2021*

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### telegram-deep-fakes-bot

*Easy implementation and use of the first order model • 2020*

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### Rappresentanti Bot

*HelpDesk Telegram bot to support DISI Students in University of Trento • 2019*

## Education

### University of Trento (Trento, Italy)

*Bachelor of Computer Science • Sept, 2017 - Mar, 2021*

*Thesis in TLS Analyzers for Android Apps - State-of-the-art Analysis and Integration in TLSAssistant.*

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### I.I.S. Primo Levi (Badia Polesine, Italy)

*High School Diploma • Sept, 2012 - Sept, 2017*

*Final elaborate in psychoanalysis of James Joyce and the artificial intelligences.*

## Certifications

### CyberWiser - CyberRange And Capacity Building in CyberSecurity

| Module    | Date         | Certificate              |
|-----------|--------------|--------------------------|
| P-01-M-01 | May 19, 2021 | <a href="#">Download</a> |
| P-01-M-02 | May 20, 2021 | <a href="#">Download</a> |

| Module | Date         | Certificate              |
|--------|--------------|--------------------------|
| P-02   | May 20, 2021 | <a href="#">Download</a> |
| P-03   | May 20, 2021 | <a href="#">Download</a> |
| P-04   | May 25, 2021 | <a href="#">Download</a> |
| P-05   | June 4, 2021 | <a href="#">Download</a> |
| P-06   | June 4, 2021 | <a href="#">Download</a> |

## First Certificate

*Cambridge Assessment English - B2 • Apr, 2017*

## ECDL Base

*ECDL / ICDL Certification • May, 2016*

## Soft Skills

### University of Trento (Trento, Italy)

*Student Representative for DISI • Nov, 2018 - Nov, 2022*

Department Of Information Engineering And Computer Science

## Programming Skills

| Language    | Knowledge Level |
|-------------|-----------------|
| Python      | <i>Advanced</i> |
| Java        | <i>Advanced</i> |
| C (and C++) | <i>Advanced</i> |

| Language | Knowledge Level                   |
|----------|-----------------------------------|
| SQL      | <i>Advanced</i>                   |
| Kotlin   | <i>Intermediate</i>               |
| PHP      | <i>Intermediate</i>               |
| RUST     | <i>Basic (willing to improve)</i> |
| JS       | <i>Basic</i>                      |
| PolyML   | <i>Basic</i>                      |
| R        | <i>Basic</i>                      |
| ASM      | <i>Basic</i>                      |

