



Matteo Leonelli


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CONTACT

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ABOUT ME

Cyber security master's student at Saarland University. Currently research assistant at CISPA.

WORK EXPERIENCE

01/04/2022 – CURRENT Saarbrücken, Germany

Research assistant CISPA Helmholtz Center for Information Security - Thorsten Holz

Research assistant in the **system security** group at CISPA with Professor Thorsten Holz. Focus on **Fuzzing** and **application security**.
<https://cispa.de/en/research/groups/holz>

01/11/2022 – 30/04/2023 Saarbrücken, Germany

Teaching Assistant Saarland University - Thorsten Holz

Teaching Assistant in **System Security** lecture.
https://cms.cispa.saarland/syssec_2223/tutors/

23/10/2022 – 23/04/2023 Saarbrücken, Germany

Academic Tutor Saarland University - Martin Schmitz

Classroom tutor at Universität des Saarlandes in **Human-Computer Interaction** lecture.

27/04/2021 – 30/09/2021 Trento, Italy

Thesis and Internship Fondazione Bruno Kessler - Silvio Ranise

Study on the **Italian electronic identity card (CIE 3.0)**. It can be used for authentication using its cryptographic capabilities and the **NFC** (Near Field Communication) protocol.
We explored different scenarios, such as using CIE 3.0 replacement for the business badge.
In this context, I developed the infrastructure to use CIE 3.0 to enroll and **access a predefined set of enterprise services** - such as pull-printing, clocking in/out, and canteen. All the components are open-source, easily deployed and migrated, and developed **according to the current security best practices**.
<https://st.fbk.eu>

05/04/2021 – 31/08/2021 Saarbrücken, Germany

CySec Project Summer Term '21 CISPA Helmholtz Center for Information Security - BITAHOY - Roman Tabachnikov

The project focuses on the risks attached to poorly developed **smart-home (connected) devices**, that carry an inherited risk to the data of its user be it through a **vulnerability or a malicious interaction** by a 3rd party. Mainly we focus on **IoT/smart devices**, excluding personal devices such as mobile phones and PCs. This is due to the scope; unlike IoT devices, personal devices have a wide variety of features and thus people use their personal devices differently.
<https://bitahoy.com>

01/04/2021 – 30/09/2021 Trento, Italy

Web Developer University of Trento - DICAM - Davide Geneletti

Development of a **website for the DICAM "Planes" research center lab** at the University of Trento
<https://planes.dicam.unitn.it>

01/09/2020 – 28/02/2021 Trento, Italy

Tutor Programming 1 lecture University of Trento - Marco Roveri

Tutor in Programming 1 course (C based) at the University of Trento.
<https://webapps.unitn.it/du/it/Persona/PER0003888/Didattica>

01/02/2019 – 31/12/2020 Povo, Italy

Junior Researcher Fondazione Bruno Kessler - Silvio Ranise

Junior Researcher in Security&Trust Lab at FBK.

App development with Android Studio, creation of an authentication service and logging management app, creation of backend and API which support the application in Javascript and Nodejs, security testing, and performance testing.

Paper presentation at **ITASEC2020**. Tool paper publication at **ACM CODASPY 2021**.

26/11/2018 – 31/01/2019 Povo, Italy

Software Developer Internship Fondazione Bruno Kessler - Silvio Ranise

Mobile developer internship in **Security&Trust** lab at **Fondazione Bruno Kessler**.
<https://ict.fbk.eu/units/st/>

30/08/2018 – 31/03/2019 Spini di Gardolo, Italy

Web developer GPI - Dario Bertoluzza

Web development and graphic design on websites; through **Javascript, CSS, HTML, CMS, and Joomla** at **OGP comunicazioni**.
<https://www.ogp.it/portfolio-page/99-web/289-sito-web-studio-giovannardi>

18/02/2019 – 22/02/2019 Rovereto, Italy

Tutor Prom Camp Tutor Fbk - Prom Facility

Tutor during the activities of the second edition of the **Prom Camp** organized by **FBK in Rovereto mechatronics center**.
<https://magazine.fbk.eu/it/news/prom-camp-studenti-al-lavoro-sullindustry-4-0>

10/12/2017 – 31/12/2020 Ravina, Italy

PHP web developer Matrix

Collaboration for a **PHP web service** to **control gates** and **presence** on embedded systems with Matrix.
<http://www.matrixtech.it>

05/03/2018 – 09/03/2018 Rovereto, Italy

Tech camp - predictive maintenance FBK junior - ProM facility

Selected for a **camp focused on the creation and discovery of new technologies** in order to create a project that overlapped between software (Python) and hardware (Arduino).
This camp took place at the **Mechatronics Center of Rovereto**.
Technologies applied: **IoT, python development, data security, and web service**.
<https://fbkjunior.fbk.eu/projects/detail/prom-camp/>
<https://fbkjunior.fbk.eu/prom-camp-2018/>
<https://fbkjunior.fbk.eu/prom-camp-2018-participants/>

05/06/2017 – 07/07/2017 Trento, Italy

Internship- Java Developer Fondazione Bruno Kessler - Gabriele Zacco

Internship at **Smart Community Lab in FBK**. Involved with data analysis and software development. Programming in **Java**, use of Database NoSQL (MongoDB), and data analysis through **Kibana** and **Elastic Search**
<http://www.smartcommunitylab.it/comunita/chi/>

EDUCATION AND TRAINING

01/10/2021 – CURRENT Saarbrücken, Germany

Master's Degree in Cybersecurity Universität des Saarlandes & CISP

Address Saarbrücken, Germany | Website <https://cysec.uni-saarland.de/master/cybersecurity/>

12/09/2018 – 20/09/2021 Povo, Italy

Bachelor's Degree in Computer Science Università di Trento

Address Povo, Italy | Website <https://offertaformativa.unitn.it/en/lm/computer-science> | Final grade 104/110 | Thesis Open and Cross-platform Ecosystem for Enterprise Services Secure and Authenticated Access with the use of Italian Identity Cards and FIDO

04/09/2022 – 09/09/2022

CISPA Summer School on Trustworthy Artificial Intelligence CISPA

Website <https://cispa.de/en/summer-school-2022>

09/04/2022 – 10/04/2022

SaarSec CTF Workshop Universität des Saarlandes & CISP

Website <https://saarsec.rocks>

01/10/2020 – 30/09/2021 Saarlandes, Germany

Erasmus year Universität des Saarlandes

Address Saarlandes, Germany | Website <https://www.uni-saarland.de/start.html>

01/09/2020 – 31/08/2021 Trento, Italy

School Of Innovation University of Trento

Address Trento, Italy | Website <https://www.soi.unitn.it>

01/04/2020 – 30/06/2020

Public Speech Certification University of Trento

Website <https://bestr.it/badge/show/1648>

11/09/2013 – 07/07/2018 Rovereto, Italy

Diploma in Computer Science Technological Institute "G. Marconi"

Computer technician diploma.

Address Rovereto, Italy | Website <https://www.marconirovereto.it> | Final grade 97/100

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening
C1

Reading
C1

Spoken production
C1

Spoken interaction
C1

Writing
C1

German

Listening
B1

Reading
B1

Spoken production
B1

Spoken interaction
B1

Writing
B1

Spanish

Listening
B1

Reading
B1

Spoken production
B1

Spoken interaction
B1

Writing
B1

DIGITAL SKILLS

CCNA, Cisco Routing and switching certification

ADDITIONAL INFORMATION

Publications

[Secure Pull Printing with QR Codes and National eID Cards: A Software-oriented Design and an Open-source Implementation - ACM CODASPY 2021](https://st.fbk.eu/complementary/CODASPY2021.html)

<https://st.fbk.eu/complementary/CODASPY2021.html>

Communication and interpersonal skills

Organisational and Communication skills I acquired good organisational and Communication and interpersonal skills during various activities in my free time. For instance, department representative in my university, collaboration with students' association like UniTiN, personal theater projects and debate groups.

[Unitn Computer Science](#) - [Department representative](#) - [Theater](#) - [Public speech certification](#)