



Dario Facchinetti

PhD Student

Born: March 13, 1994

Dario Facchinetti

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Education

Università degli Studi di Bergamo, *Phd*

Sept 2018 - Present, Dalmine

PhD program in Engineering and Applied Sciences

Advisor: Prof. Stefano Paraboschi

Università degli Studi di Bergamo, *MSc*

Sept 2016 - Jul 2018, Dalmine

Software Engineering, GPA: 4.0/4.0 - Graduated summa cum laude

Università degli Studi di Bergamo, *BSc*

Sept 2013 - Jul 2016, Dalmine

Software Engineering

Research (best works)

Matthew Rossi, Dario Facchinetti, Enrico Bais, Marco Rosa, Stefano Paraboschi

[SEApp: Bringing Mandatory Access Control to Android Apps](#)

30th USENIX Security

A modification to the AOSP to extend the MAC layer to Android apps. SEApp leverages SELinux to restrict access to the internal storage, restrict access to services, and isolate vulnerability prone components.

Sabrina De Capitani di Vimercati, Dario Facchinetti, Sara Foresti, Gianluca Oldani, Stefano Paraboschi, Matthew Rossi, Pierangela Samarati

[Artifact: Scalable Distributed Data Anonymization](#)

19th IEEE PerCom - Best Artifact Award Winner

A Dockerized Apache Spark-based version of Mondrian, a sanitization algorithm to achieve k-anonymity. It is executed on a Spark cluster with a varying number of executors. Docker containers are used to scale the number of executors.

Leadership and awards

LUBERG - New graduate of the year

For the Dept. of Management, Information and Production Engineering

Nov 19, 2019, Bergamo

LUBERG new graduate of the year award rewards talent, determination and commitment of graduates who stand out for a particularly brilliant academic record, the results achieved in the degree course, the originality and the scientific rigor of the thesis.

Google hash code 2019 Finals

Apr 27, 2019, Dublin

Team: Unibg Seclab, 38th place

Università degli Studi di Bergamo

Sept 2018 - Present

Supervised 20+ thesis students

Experience

UNIBG, Autonomous collaboration (EU Horizon 2020 - MOSAICrOWN)

May 2021 - Present

Extension of a prototype for the management of a language for security policies in a Digital Data Market

UNIBG, Autonomous collaboration (EU Horizon 2020 - MOSAICrOWN)

Jul 2020 - Nov 2020

Development of a prototype for the management of a security policy language in a Digital Data Market

UNIBG, Autonomous collaboration (EU Horizon 2020 - MOSAICrOWN)

Jul 2019 - Dec 2019

Development of a prototype for the management of data in a Digital Data Market

UNIBG, Teaching Assistant

- Introduction to programming in Python, Year: 2018, 2020
- Databases I, Year: 2019, 2020, 2021
- Databases II, Year: 2019, 2020
- Computer Security, Year: 2021

Skills

Software/Programming languages that I use daily:

- Ubuntu, Emacs, git, Python, *LaTeX*

Policy/Programming languages and tools I'm familiar with:

- TE, CIL, M4, Go, Java, C++, Make, Docker

Languages:

- Italian (native), English

Personal interest areas (software related):

- Linux (or any other derived OS) internals, Applied Cryptography, Security & Privacy

Interests

I'm really passionate about operating systems security, especially topics like the integration of access control techniques in legacy systems. I also really like applied cryptography (currently trying to solve the cryptopals in Go).

When I'm not working I spend time reading manga and planning new trips.