

STEFANO BERLATO

last update: 19-03-2021

Computer Scientist

Ph.D. Student@UniGE-FBK, Clusit Member.
Keen on Cloud, Automotive and Software Security.
Sports person, KH fan and D&D master.

Personal Information

Stefano Berlato



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stefanoberlato.it



Education

University of Trento - 2017-2019

Master degree in Computer Science
"ICT Innovation - Security&Privacy"
110L

University of Trento - 2014-2017

Bachelor degree in Computer Science
110L

Skills

Computer Science

- Cryptography and Access Control
- Reverse Engineering, Android
- Network Security
- Back-end and RESTful APIs
- Basic DevOps concepts
- Software Engineering

Languages

- Italian : Mother tongue
- English: C1

Other Skills

- Team Work (Agile)
- Innovation Concepts

Experience

Ph.D. (Nov 2020 - on going)



University of Genoa, Genoa (Italy)
Fondazione Bruno Kessler (FBK), Trento (Italy)

Research activities on access control in cloud-edge solutions (e.g., IoT, eHealth, Cooperative Connected and Automated Mobility). Design of an architectural model for the optimisation of cryptographic access control enforcements.

Teaching Assistant (Sep 2020 - on going)



University of Trento, Trento (Italy)

Teaching Assistant for the Computer Science bachelor degree course "Programmazione 1" at the University of Trento.

Researcher (Oct 2018 - Oct 2020)



Fondazione Bruno Kessler (FBK), Trento (Italy)

Research activities on access control in the Cloud, mobile and automotive security. Design of an architectural model for the optimisation of cryptographic access control enforcements. Research activities on Cooperative, Connected and Automated Mobility. Study and design of reverse engineering protections for Java and Android Apps.

Master Thesis



University of Trento, Trento (Italy)
Fondazione Bruno Kessler (FBK), Trento (Italy)

A Pragmatic Approach to Handle "Honest but Curious" Cloud Service Providers: Cryptographic Enforcement of Dynamic Access Control Policies.
Awarded 3rd prize at Thesis Award «Innovating information security» 15th edition - 2019, Clusit
github.com/StefanoBerlato/Master-Thesis

Publications

Papers in Journals

Stefano Berlato, Mariano Ceccato.

A Large-Scale Study on the Adoption of Anti-Debugging and Anti-Tampering Protections in Android Apps

Journal of Information Security and Applications, Issue number 52 (2020)

Papers in Conferences

Stefano Berlato, Roberto Carbone, Silvio Ranise, Adam J. Lee.

Exploring Architectures for Cryptographic Access Control Enforcement in the Cloud for Fun and Optimization

in 15th ACM ASIA Conference on Computer and Communications Security (ASIACCS 2020)

Marco Centenaro, Stefano Berlato, Roberto Carbone, Gianfranco Burzio, Giuseppe Faranda Cordella, Silvio Ranise, Roberto Riggio.

Security Considerations on 5G-Enabled Back-Situation Awareness for CCAM

in IEEE 3rd 5G World Forum (5GWF'20)

Subreviewer Activity

ICISS (2019), SECRYPT, FPS, ICISS, DPM, DBSEC, SACMAT (2020), SACMAT, ITASEC (2021)

Supervised Theses

Veronica Cristiano, master in Mathematics at the University of Trento (2020).

Key Management for Cryptographic Enforcement of Access Control Policies in the Cloud: The CryptoAC use case

Chaudhry Muhammad Suleman, master in Computer Science at the University of Trento (2020).

Cyber-security Risk Assessment for Cooperative, Connected and Automated Mobility: Application to Cooperative Lane Merging

Android Reverse Engineering (Jul - Oct 2018)



2ASPIRE, Trento (Italy)

Research and analysis of best practices against malicious Reverse Engineering (RE) to increase the company's knowhow in Android RE anti-tampering and anti-debugging protections.

Business Development Course (Feb - Jul 2018)



University of Trento, Povo (Italy)

"Joni is a tool meant to help blind and visually impaired people to keep in touch with the world". Validate business idea through concrete analysis on the field and market research with the goal to make news and podcasts accessible by the blind community.

github.com/StefanoBerlato/Joni

University Assistant: IT Assistant



University of Trento, Trento (Italy)

150 hours working contract under the "Information Systems Management" office, Support the deployment of the Digital University project, a new platform serving as Knowledge HUB within the university itself.

Bachelor Thesis



University of Trento, Trento (Italy)

Development of a web based Interface for the Orchestration of Machine Learning Components.

github.com/StefanoBerlato/Bachelor-Thesis

Android App - Course (Feb - Jun 2017)



University of Trento, Trento (Italy)

Glumo is an Android application for helping people who suffer from diabetes with features like automatic alarms and emergency SMS. Design of monitoring services with direct BT connection with modern glycemetic sensors.

github.com/StefanoBerlato/Glumo

youtu.be/D86wqLJcGT

Javascript Libraries Development for Web SCADA Systems (Jun - Sept 2016) Heas srl, Schio (Italy)



Design of two plugins for the commercial web-based SCADA platform ATWISE® through web technologies. Achievement of SCADA interface compliance with high-level HMI industrial standards. Developed gestures and tablet-style functionalities, dynamic object instantiation and linking to PLC data.

Web Development - Course (Feb - Jun 2016)



University of Trento, Trento (Italy)

Use of Agile process to design the architecture and develop a website with Java backend. Implementation of Model-View-Control while employing the DAO pattern for decoupling logic from storage.

github.com/StefanoBerlato/eater