

FLAVIO TOFFALINI

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CURRENT POSITION

École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Nov 2021

PostDoc, supervised by Prof. Mathias Payer

Topic: fuzzing, software analysis

EDUCATION

Singapore University of Technology and Design, Singapore

Sep 2021

Ph.D., supervisor Prof. Jianying Zhou

Topic: trusted computing, system security

University of Verona, Italy

Oct 2015

M.S. in Computer Science and Engineering 108/110, GPA 3,9/4

Supervisor Prof. Damiano Carra

Master thesis topic: Google dorks, Web security

University of Pavia, Italy

Dec 2009

B.S. in Computer Engineer 101/110, GPA 3,67/4

Supervisor Prof. Paolo Gamba

ACADEMIC ACTIVITIES

King's College London

Nov 2019 - Mar 2020

Visiting fellow, supervised by Prof. Lorenzo Cavallaro

London, UK

- Topic: trusted computing, system security

University of Padua

Jan 2018 - Aug 2018

Visiting fellow, supervised by Prof. Mauro Conti

Padua, Italy

- Topic: trusted computing, system security

Singapore University of Technology and Design

Aug 2016 - Dec 2017

Research Assistant, supervised by Prof. Martín Ochoa

Singapore, Singapore

- Topic: insider threats, trusted computing

University of Verona

Dec 2015 - July 2016

Research Assistant, supervised by Prof. Fausto Spoto

Verona, Italy

- Topic: static analysis of Android applications

Eurecom

April 2015 - July 2015

Visiting fellow, supervised by Prof. Davide Balzarotti

Biot, France

- Topic: Google dorks, Web security

SELECT PUBLICATIONS

SnakeGX: a sneaky attack against SGX Enclaves

conference - 2021

The 19th International Conference on Applied Cryptography and Network Security (ACNS)

- Toffalini F., Graziano M., Conti M., Zhou J.

- ScaRR: Scalable Runtime Remote Attestation for Complex Systems** conference - 2019
The 22nd International Symposium on Research in Attacks, Intrusions and Defenses (RAID)
- **Toffalini F.**, Losiouk E., Biondo A., Zhou J., Conti M.
- Insight Into Insiders and IT: A Survey of Insider Threat Taxonomies, Analysis, Modeling, and Countermeasures** journal - 2019
ACM Computing Surveys (CSUR)
- Homoliak I., **Toffalini F.**, Guarnizo J., Elovici Y., Ochoa M.
- Careful-Packing: A Practical and Scalable Anti-Tampering Software Protection enforced by Trusted Computing** conference - 2019
The 9th ACM Conference on Data and Application Security and Privacy (CODASPY)
- **Toffalini F.**, Ochoa M., Sun J., and Zhou J.
- Static Analysis of Context Leaks in Android Applications** conference - 2018
The 40th International Conference on Software Engineering: Software Engineering in Practice (SEPA@ICSE)
- **Toffalini F.**, Sun J., and Ochoa M.
- Detection of Masqueraders Based on Graph Partitioning of File System Access Events** workshop - 2018
IEEE Security and Privacy Workshops (SPW)
- **Toffalini F.**, Homoliak I., Harilal A., Binder A., and Ochoa M.
- TWOS: A Dataset of Malicious Insider Threat Behavior Based on a Gamified Competition** workshop - 2017
The 9th ACM CCS International Workshop on Managing Insider Security Threats (MIST)
- Harilal A., **Toffalini F.**, Castellanos J., Guarnizo J., Homoliak I., and Ochoa M.
- Google Dorks: Analysis, Creation, and new Defenses** conference - 2016
Detection of Intrusions and Malware, and Vulnerability Assessment The 13th International Conference, (DIMVA)
- **Toffalini F.**, Abba' M., Carra D. and Balzarotti D.