

# FLAVIO TOFFALINI

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## EDUCATION

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- Singapore University of Technology and Design, Singapore** *Jan 2017*  
Ph.D. Student, 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

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- 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

## PUBLICATIONS

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- 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  
*9th ACM Conference on Data and Application Security and Privacy (CODASPY)*  
· **Toffalini F.**, Ochoa M., Sun J., and Zhou J.

- Practical static analysis of context leaks in Android applications** journal - 2019  
*Software: Practice and Experience*
- **Toffalini F.**, Sun J., and Ochoa M.
- Static Analysis of Context Leaks in Android Applications** conference - 2018  
*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.
- The Wolf Of SUTD (TWOS): A Dataset of Malicious Insider Threat Behavior Based on a Gamified Competition** journal - 2018  
*Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA)*
- Harilal A., **Toffalini F.**, Homoliak I., Castellanos J., Guarnizo J., Mondal S., and Ochoa M.
- TWOS: A Dataset of Malicious Insider Threat Behavior Based on a Gamified Competition** workshop - 2017  
*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 13th International Conference, (DIMVA)*
- **Toffalini F.**, Abba' M., Carra D. and Balzarotti D.
- REnvDB, a RESTful Database for Pervasive Environmental Wireless Sensor Networks** workshop - 2010  
*IEEE Distributed Computing Systems Workshops (ICDCSW)*
- De Stefani F., Gamba P., Goldoni E., Savioli A., Silvestri D., and **Toffalini F.**