

## Daniel Ricardo dos Santos

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PERSONAL AND CONTACT INFORMATION	<b>E-mail:</b> <a href="mailto:danielricardo.santos@gmail.com">danielricardo.santos@gmail.com</a> <b>Website:</b> <a href="http://daniel-rs.github.io">daniel-rs.github.io</a> <b>LinkedIn:</b> <a href="https://www.linkedin.com/in/danielricardosantos">linkedin.com/in/danielricardosantos</a>	<b>Skype:</b> <a href="https://www.skype.com/people/danielricardo.santos">danielricardo.santos</a> <b>Phone:</b> +39 388 634 0742 <b>Location:</b> Trento, Italy
AREAS OF INTEREST	Computer and Information Security; Software Engineering and Formal Methods; Machine Learning and Artificial Intelligence.	
EDUCATION	<b>University of Trento (UNITN), Italy</b> PhD. in Computer Science <i>Thesis:</i> Automatic Security Analysis of Business Processes <b>Expected graduation:</b> Dec, 2016 <b>Federal University of Santa Catarina (UFSC), Brazil</b> MSc. in Computer Science <i>Thesis:</i> Dynamic Risk-based Access Control for Cloud Computing 2013 BSc. in Computer Science <i>Thesis:</i> Identity Management and Privacy in Cloud Computing 2011	
WORK EXPERIENCE	<b>Fondazione Bruno Kessler - Trento, Italy</b> <i>Post-doctoral Researcher</i> 09/2016 - Current <i>Early Stage Researcher</i> 09/2013 - 08/2016 <b>SAP Labs - Mougins, France</b> <i>Early Stage Researcher</i> 09/2013 - 08/2016 <b>SecPlus - Florianópolis, Brazil</b> <i>Information Security Consultant</i> 10/2012 - 07/2013 <b>AltoQi - Florianópolis, Brazil</b> <i>C++ developer</i> 10/2011 - 04/2012 <b>Networks and Management Laboratory, UFSC - Florianópolis, Brazil</b> <i>Research Assistant</i> 07/2010 - 07/2013	
FURTHER EDUCATION	SECENTIS Winter School - Security of Enterprise Information Systems (2016) IEEE Italy Section School of Career Boosting (2015) Marktoberdorf Summer School - Dependable Software Systems Engineering (2014) Bolzano Startup Weekend (2013) UFSC Mathematics Summer School (2011)	

SKILLS	<p><b>Programming languages:</b> Python, C/C++, Java, PHP, JavaScript.</p> <p><b>Technical expertise:</b> Penetration testing, Web and mobile security, Network and server administration (Linux), Database management (SQL), Formal methods.</p> <p><b>Soft skills:</b> Quick learner with good communication (verbal and written). Capable of working independently and in teams. Efficient project manager.</p> <p><b>Languages:</b> Portuguese (Native), English (Fluent), Italian (Intermediate).</p>
AWARDS AND SCHOLARSHIPS	<p>Best Student Paper Award, 2015 (DBSec conference)</p> <p>Scholarship for PhD. studies, 2013-2016 (Marie-Curie Actions, EU)</p> <p>Scholarship for MSc. studies, 2012-2013 (CNPq, Brazil)</p> <p>Scholarship for BSc. studies, 2010-2011 (CNPq, Brazil)</p>
PATENTS	<ol style="list-style-type: none"> <li>1. S.E. Ponta, L. Compagna, <b>D.R. dos Santos</b>, S. Ranise, “<i>Secure and Compliant Execution of Processes</i>”, filed on 13/04/2016</li> <li>2. A. Sabetta, L. Compagna, S.E. Ponta, S. Dashevskyi, <b>D.R. dos Santos</b>, F. Massacci, “<i>Multi-context Exploit Test Management</i>”, filed on 22/04/2015</li> </ol>
PUBLICATIONS	<ol style="list-style-type: none"> <li>1. <b>D.R. dos Santos</b>, S.E. Ponta, S. Ranise. “<i>Modular Synthesis of Enforcement Mechanisms for the Workflow Satisfiability Problem: Scalability and Reusability</i>” in Proceedings of the 21st ACM Symposium on Access Control Models and Technologies (SACMAT), 2016</li> <li>2. L. Compagna, <b>D.R. dos Santos</b>, S.E. Ponta, S. Ranise. “<i>Cerberus: Automated Synthesis of Enforcement Mechanisms for Security-sensitive Business Processes</i>” in Proceedings of the 22nd International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS), 2016</li> <li>3. <b>D.R. dos Santos</b>, S. Ranise, L. Compagna, S.E. Ponta. “<i>Assisting the Deployment of Security-Sensitive Workflows by Finding Execution Scenarios</i>” in Data and Applications Security and Privacy XXIX (DBSec), 2015</li> <li>4. C. Bertolissi, <b>D.R. dos Santos</b>, S. Ranise. “<i>Automated Synthesis of Runtime Monitors to Enforce Authorization Policies in Business Processes</i>” in Proceedings of the 10th ACM Symposium on Information, Computer and Communications Security (ASIACCS), 2015</li> <li>5. S. Dashevskyi, <b>D.R. dos Santos</b>, F. Massacci, A. Sabetta. “<i>TESTREX: a Testbed for Repeatable Exploits</i>” in Proceedings of the 7th Workshop on Cyber Security Experimentation and Test (CSET), 2014</li> <li>6. P.A.F. Vitti, <b>D.R. dos Santos</b>, C.B. Westphall, C.M. Westphall, K.M.M. Vieira. “<i>Current Issues in Cloud Computing Security and Management</i>” in Proceedings of the 8th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE), 2014</li> <li>7. <b>D.R. dos Santos</b>, C.M. Westphall, C.B. Westphall. “<i>A dynamic risk-based access control architecture for cloud computing</i>” in Proceedings of the IEEE/IFIP Network Operations and Management Symposium (NOMS), 2014</li> <li>8. C.B. Westphall et al. “<i>Operation, Management, Security and Sustainability for Cloud Computing</i>” in Revista de Sistemas de Informação da FSMA, vol. 2014, no. 13, 2014</li> </ol>

9. E.A. Rigon, C.M. Westphall, **D.R. dos Santos**, C.B. Westphall. “*A Cyclical Evaluation Model of Information Security Maturity*” in Information Management and Computer Security, vol. 22, no. 3, 2014
10. P. Silva, C.B. Westphall, C.M. Westphall M. Mattos, **D.R. dos Santos**. “*An Architecture for Risk Analysis in Cloud*” in Proceedings of the 10th International Conference on Networking and Services (ICNS), 2014
11. **D.R. dos Santos**, T.J. Nascimento, C.M. Westphall, M.A.P Leandro, C.B. Westphall. “*Privacy-preserving identity federations in the cloud: a proof of concept*” in International Journal of Security and Networks, vol. 9, no. 1, 2014
12. **D.R. dos Santos**, C.M. Westphall, C.B. Westphall. “*Risk-based Dynamic Access Control for a Highly Scalable Cloud Federation*” in Proceedings of the 7th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE), 2013
13. R.F. de Souza, C.B. Westphall, **D.R. dos Santos**, C.M. Westphall. “*Challenges of Operationalizing PACS on Cloud Over Wireless Networks*” in Proceedings of the 9th International Conference on Wireless and Mobile Communications (ICWMC), 2013
14. R.F. de Souza, C.B. Westphall, **D.R. dos Santos**, C.M. Westphall. “*A Review of PACS on Cloud for Archiving Secure Medical Images*” in International Journal of Privacy and Health Information Management, vol. 1, no. 1, 2013
15. R.B. Brinhosa, C.M. Westphall, C.B. Westphall, **D.R. dos Santos**, F. Grezele. “*A Validation Model of Data Input for Web Services*” in Proceedings of the 12th International Conference on Networks (ICN), 2013
16. M.A.P. Leandro, T.J. Nascimento, **D.R. dos Santos**, C.M. Westphall, C.B. Westphall. “*Multi-Tenancy Authorization System with Federated Identity for Cloud-Based Environments Using Shibboleth*” in Proceedings of the 11th International Conference on Networks (ICN), 2012
17. **D.R. dos Santos**, C.M. Westphall, “*Uma aplicação de privacidade no gerenciamento de identidades em nuvem com uApprove*” in Anais do Simpósio Brasileiro em Segurança da Informação e de Sistemas Computacionais (SBSEG), 2011

#### SECURITY ADVISORIES

[CVE-2013-2618](#): Network Weathermap 0.97a Cross Site Scripting  
[CVE-2013-2619](#): Aspen 0.8 Directory Traversal

#### TEACHING ASSISTANCE

Applied Security (MSc.) - UNITN, Italy - 2014  
 Operating Systems (BSc.) - UFSC, Brazil - 2013  
 Computer Networks (BSc.) - UFSC, Brazil - 2013

#### SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

Association for Computing Machinery ([ACM](#))  
 Working Group on Data and Applications Security and Privacy ([IFIP WG11.3](#))  
 European Joint Conferences on Theory and Practice of Software ([ETAPS](#))

#### ONLINE COURSES

Machine Learning ([Andrew Ng](#), Stanford - 2015)  
 Computer Systems Security ([Nickolai Zeldovich](#), MIT - 2014)  
 Introduction to Philosophy ([Caspar Hare](#), MIT - 2014)