

# JORDANEY ROBERTO

## PERSONAL INFORMATION

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**Born date** 11/05/1988  
**Email** jordaney.roberto@gmail.com  
**Telephone** +44 7477 29 68 93  
[LinkedIn Profile](#)  
[Personal Website](#)

## EDUCATION

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**PERIOD** September 2014 — February 2019  
**DEGREE** PhD in Information Security  
**UNIVERSITY** Royal Holloway University of London London, United Kingdom

My PhD aimed to apply statistical learning methods in the field of systems security. In particular, I developed a framework to detect concept drift on pre-existing models. The framework provides also insights to help the design of new and better models.

**PERIOD** September 2007 — March 2013  
**DEGREE** Bachelor and Master of Science in Computer Science  
**UNIVERSITIES** 2011-2012: EURECOM University (double degree) Sophia Antipolis, France  
2009-2011: Polytechnic of Turin Turin, Italy  
2008-2009: Tongji University (exchange program) Shanghai, Cina  
2007-2008: Polytechnic of Turin Turin, Italy

## EXPERIENCE

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**PERIOD** April 2019 — Now  
**POSITION** Research Engineer — HP Inc.  
**TECHNOLOGIES** Python, Blockchain, Hyperledger Sawtooth, Docker, AWS  
The goal of the project is to build a common blockchain-based infrastructure to support the development of new applications.

**PERIOD** July 2018 — April 2019  
**POSITION** Post-Doc Research Assistant Royal Holloway University of London, UK  
**PROJECT** FutureTPM [FutureTPM WebSite](#)

The goal of the project is to develop the next generation of TPM that incorporates quantum resistant cryptographic primitives. I was in charge to develop a module that enables virtualized environment to benefit from TPM functionalities.

**PERIOD** September 2014 — June 2018  
**POSITION** Teaching Assistant Royal Holloway University of London, UK

**Software Security** (2015/2016, 2016/2017 and 2017/2018)  
Technical tutor for the master's course exercises of web and network security.  
**Computer and Network Security** (2015/2016, 2016/2017 and 2017/2018)  
Technical tutor for the bachelor's course exercises of web and network security.  
**Security Testing** (2016/2017)  
Tutor for the bachelor's online course.  
**Smart Cards, RFIDs and Embedded Systems Security** (2017/2018)  
Tutor for the master's course exercises.

**POSITION** Intern and Junior Researcher — SAP Labs France (Sophia Antipolis, FR)  
**PERIOD** July 2012 — June 2013  
**TECHNOLOGIES** Java, HTML, javascript, XML, WSDL, AJAX, SOAP, Apache Tomcat  
**PROJECTS** Architecture Security Advisor (ASA) and PoSecCo

The aim of ASA project was to provide security at early stages of the development lifecycle, identifying potential security violations and providing mitigations. The project produced a MS Visio plug-in to enable the analysis. The goal of the European Project PoSecCo was to establish and maintain a link between high-level requirements and low-level technical configuration settings.

## OTHER EXPERIENCE

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PROJECT	<b>Malware Download Prediction</b>	University of Georgia, Georgia, USA
PERIOD	<b>August — November 2017</b>	
TECHNOLOGIES	<b>Python, shell scripting, Apache on Linux server, Apache log</b>	
	The project involved predicting binary downloads as legitimate application or malware. The prediction is based on the history of visited urls by the downloading entity.	
PROJECT	<b>Web Honeypot Analysis</b>	EURECOM, Sophia Antipolis, France
PERIOD	<b>February — June 2012</b>	
TECHNOLOGIES	<b>Python, shell scripting, Apache on Linux server, Apache log</b>	
	The semester project involved logs analysis of a web honeypot to highlight possible attack patterns and common exploitation techniques. It was published by Canali D. and Balzarotti D., “Behind the scenes of online attacks: an analysis of exploitation behaviours on the web.”, NDSS 2013. (thanks note on the presentation <a href="#">slides</a> ).	
POSITION	<b>Consultant — Reply SPA</b>	(Turin, Italy)
PERIOD	<b>December 2013 — March 2014</b>	
TOOLS & TECHNOLOGIES	<b>MySQL, PowerShell scripts, PGP, DLP, classification tools, Symantec PGP, Symantec DLP, Boldon James Classifier, NXLog</b>	
	The project involved the technological upgrade of FIAT environment regarding the management of its sensitive data. My role involved studying and testing the impact of the new introduced technologies in Turin’s headquarters (1.200 people affected).	
POSITION	<b>Intern — Magneti Marelli SPA</b>	(Turin, Italy)
PERIOD	<b>April — July 2010</b>	
	The project involved testing the device driver layer in the stack of electronic control units. My goal was to generalize the description of the layer in order to automatize the testing process. The audience of the released tool was internal only.	

## MISCELLANEOUS

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<b>Main Publications:</b>	<ul style="list-style-type: none"><li>• Jordaney R, Sharad K, Dash K S, Wang Z, Papini D, Nouretdinov I, and Cavallaro L. Transcend: Detecting concept drift in malware classification models. In <i>26th USENIX Security Symposium (USENIX Security 17)</i>, pages 625-642, USENIX Association.</li><li>• Pendlebury F., Pierazzi F., Jordaney R., Kinder J., Cavallaro L. TESSERACT: Eliminating Experimental Bias in Malware Classification across Space and Time. To appear in <i>28th USENIX Security Symposium (USENIX Security 19)</i>, USENIX Association</li></ul>
<b>Sys Admin:</b>	Administration of the virtual environment of the System Security Research Lab ( <a href="#">S2Lab</a> ), including website, research/production VMs and networks.
<b>CTF:</b>	Online and onsite player with the <a href="#">University Team</a> <i>Responsible Disclosure Award</i> at <a href="#">Sasakawa USA CTF 2018</a> <i>Assessor</i> for <a href="#">Cyber Security Challenge UK 2018</a> 2 <sup>nd</sup> place at the London Metropolitan University CTF <a href="#">2017</a> 3 <sup>rd</sup> place at the Deloitte CTF <a href="#">2016</a> National Olympic <a href="#">ABACUS</a> in Informatics 2006: 10 <sup>th</sup> over 34
<b>Open Source:</b>	I created the <a href="#">ReFresh</a> Theme for Hugo (static website generator)
<b>Hackathon:</b>	<a href="#">Data Study Group</a> (DSG) at <a href="#">Alan Turing Institute</a> in London 2018 <a href="#">Cyber Hack 2015</a> , <a href="#">Build the News 2015</a>
<b>Summer Schools:</b>	<a href="#">UbiCrypt 2015</a> , focused on systems security and code-reuse attacks. <a href="#">Advanced Statistics and Data Mining Summer School 2016</a> , focused on theory of various machine learning models such as SVM, decision trees and neural networks.
<b>Spoken Languages:</b>	English: very good written and oral skills. French: good written and oral skills. Italian: native language. German: basic knowledge. Chinese: basic knowledge.
<b>Tools &amp; Technologies:</b>	Blockchain, Docker, AWS, Hyperledger Sawtooth, C, CUDA, Java, Python, HTML, XML, javascript, SQL, VHDL, Assembly x86, Shell scripting, SVN, GIT, latex, Apache, NGINX, MySQL, Eclipse, VMware technologies