

Christof FERREIRA TORRES

Curriculum Vitae

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Born 20.08.1991 in Luxembourg
Portuguese nationality



Education

- 2014 – 2016 **Master of Science (M.Sc.) in Information and Computer Sciences**, *University of Luxembourg*, Specialized in “Information Security” and “Adaptive Computing”, GPA – 17.5 (Very Good).
- 2011 – 2014 **Bachelor in Computer Science**, *University of Luxembourg*, Specialized in “Distributed Systems”, GPA – 16.6 (Very Good).
- 2013 **Semester abroad (ERASMUS) in Computer Science**, *Bremen University of Applied Sciences, Germany*.
- 2009 – 2011 **Degree of technical secondary studies “Technicien en informatique”**, *Lycée Technique des Arts et Métiers, Luxembourg*, With Honors.

Master Thesis

- Title ***The Revival of Mining: Anonymised Micropayments via Mined Tickets.***
- Supervisor Prof. Dr. Alex Biryukov
- Reviewer Prof. Dr. Volker Müller
- Advisors Dr. Dmitry Khovratovich and Dr. Ivan Pustogarov (Cornell University)

Bachelor Thesis

- Title ***Fingerprint Privacy. A fresh perspective on web privacy.***
- Supervisors Prof. Dr. Sjouke Mauw and Dr. Ir. Hugo Jonker

Experience

- October 2016 – Present **Research Associate**, *Fraunhofer Institute for Applied and Integrated Security (AISEC)*, Garching near Munich.
Assistance in the PARADISE project, evaluation of mobile payment apps (VISA/MasterCard) and guidance on blockchain related topics. Department of Service & Application Security. Head of institute: Prof. Dr. Claudia Eckert. Head of department: Dr. Julian Schütte.
- March 2016 – September 2016 **Research Assistant**, *University of Luxembourg*, Luxembourg, Student Job.
Development of TicketMiner. An anonymous micropayment system as part of my master thesis. Supervisors: Prof. Dr. Alex Biryukov and Dr. Ivan Pustogarov.

- September 2015 – **Research Assistant**, *University of Luxembourg*, Luxembourg, Student Job.
Development of a Preference-Based Genetic Algorithm (PBGA). Supervisors: Dr. Grégoire Danoy and Dr. Sune S. Nielsen.
- January 2016
- March 2015 – **Research Assistant**, *University of Luxembourg*, Luxembourg, Student Job.
July 2015 Development of a novel trajectory anonymization technique based on the discrete Fréchet distance. Supervisor: Dr. Rolando Trujillo-Rasua.
- September 2014 – **Research Assistant**, *University of Luxembourg*, Luxembourg, Student Job.
Development of FP-Block, an anti-browser fingerprinting solution. Supervisors: Dr. Hugo Jonker and Prof. Dr. Sjouke Mauw.
- February 2015
- October 2013 – **Web Developer**, *University of Luxembourg*, Luxembourg, Student Job.
Development of a database and online repository called CEDES. Supervisor: Prof. Dr. Lucienne Blessing.
- July 2012 – **IT Technician**, *Centre de Technologie et de l'Education*, Kirchberg, Summer Job.
- August 2012 A 4 weeks summer job in assisting the technicians in numerous technical tasks.
- April 2010 **IT Technician**, *Centre de Technologie et de l'Education*, Kirchberg, Internship.
A 4 weeks internship in the context of the fulfillment of my degree of technical secondary studies.

Publications

- 2016 **The Fréchet/Manhattan distance and the trajectory anonymisation problem**, *Christof Ferreira Torres and Rolando Trujillo-Rasua*, 30th Annual IFIP Conference on Data and Applications Security and Privacy (DBSec'16).
Tackling the IFP Problem with the Preference-Based Genetic Algorithm, *Sune S. Nielsen, Christof Ferreira Torres, Grégoire Danoy and Pascal Bouvry*, 18th Genetic and Evolutionary Computation Conference (GECCO'16), *Nominated for best paper*.
- 2015 **Preference-Based Genetic Algorithm for Solving the Bio-Inspired NK Landscape Benchmark**, *Christof Ferreira Torres, Sune S. Nielsen, Grégoire Danoy and Pascal Bouvry*, 7th European Symposium on Computational Intelligence and Mathematics (ESCIM'15).
FP-Block: Usable Web Privacy by Controlling Browser Fingerprinting, *Christof Ferreira Torres, Hugo Jonker and Sjouke Mauw*, 20th European Symposium on Research in Computer Security (ESORICS'15).

IT Skills

- Programming Languages JAVA, C, C++, PYTHON, R, TURBO PASCAL/DELPHI, SHELL, ASSEMBLER
- Web HTML, XML, XSL, XSLT, XPATH, CSS, PHP, JAVASCRIPT, JSP, JSF, JAVA BEANS, SERVLETS, APACHE, TOMCAT, NODEJS
- Mobile ANDROID, IOS (OBJECTIVE-C, SWIFT)
- IDEs ECLIPSE, VISUAL STUDIO, ANDROID STUDIO, XCODE

Version GIT, SUBVERSION
Control
Text MICROSOFT OFFICE, LATEX
Processing
Databases SQL, MYSQL, POSTGRESQL, MONGODB
Operating SYSTEMS WINDOWS, LINUX, UNIX, MACINTOSH

Languages

Portuguese	Mothertongue	C2
German	Fluent	C2
Luxemburgish	Fluent	C2
English	Advanced Proficiency	C1
French	Intermediate Proficiency	B2
Dutch	Beginner	A1

Awards

- 2016 **Top Student Award**, UNIVERSITY OF LUXEMBOURG.
Prize: 3 weeks Summer School in Asian Studies from 21th July 2016 until 12th August 2016 at Sophia University, Tokyo, Japan
Morpheus Cup Award.
Best European Students Project in *FinTech* and *Mobility*
- 2015 **Falling Walls Lab Luxembourg.**
Top 10 finalists
Morpheus Cup Award.
Best European Students Project in *Mobility*

Interests

- Online Privacy
- Mobile Security
- Blockchain
- Hackathons
- Mountain Biking
- Traveling
- Nature