

Luca Melis

Curriculum Vitae

Computer Science Dept,
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📄 <http://lucamelis.github.io>



Education

- April 2010 **Bachelor's Degree in Computer Engineering**, *University of Florence*, mark 110/110 cum laude.
Thesis: Implementation of a Buyer-Seller protocol based on group signatures
- April 2013 **Master's Degree in Computer Engineering**, *University of Florence*, mark 110/110 cum laude and honorable mention.
Thesis: On the Learning Parity with Noise Problem
- September 2014–Present **PhD in Privacy Enhancing Technologies**, *under the supervision of Dr. Emiliano De Cristofaro and Dr. George Danezis*, University College of London.

Research interests

- Privacy and Applied Cryptography
- Systems and Network Security
- Machine learning applied to security problems

Visits/Internships

- August **EU Erasmus**, AARHUS UNIVERSITY, Aarhus, Denmark.
- 2012–January 2013 Master's thesis preparation under the supervision of Claudio Orlandi and Ivan Damgård;
Research on post quantum cryptography.
- September–December 2015 **PhD Intern**, INRIA RHONE ALPES, Grenoble, France.
Working under the supervision of Dr. Claude Castelluccia; Research on Deep Learning applied to Differential Privacy and social networks de-anonymization.

List of publications

Luca Melis, Hassan Jameel Asghar, Emiliano De Cristofaro, and Mohamed Ali Kaafar. Private Processing of Outsourced Network Functions: Feasibility and Constructions. *1st ACM Workshop on SDN-NFV Security 2016*, 2016.

Luca Melis, George Danezis, and Emiliano De Cristofaro. Efficient Private Statistics with Succinct Sketches. *23rd Network and Distributed System Security Symposium (NDSS 2016)*, 2016.

Schools/Workshops Attended

August 2011	Computational Nanotechnology Summer School	<i>Gdansk University of Technology, Poland</i>
October 2014	IACR CryptoAction School on Cryptographic Attacks	<i>Porto, Portugal</i>
January 2015	Privaski Workshop 2015	<i>Correncon, France</i>
January 2015	Real World Cryptography Workshop 2015	<i>London, United Kingdom</i>
September 2015	School on Foundations of Security Analysis and Design (FOSAD)	<i>Bertinoro, Italy</i>

Teaching experience

Teaching Assistant	Privacy Enhancing Technologies , MSC IN INFORMATION SECURITY, University College London, Winter 2015, Winter 2016.
Teaching Assistant	Publishing Scientific Papers with LaTeX/BibTeX , DOCTORAL SKILLS DEVELOPMENT PROGRAMME, University College London, Winter 2015.

Talks

November 2015	Efficient Private Statistics with Succinct Sketches , <i>INRIA Rhône-Alpes</i> , Grenoble, France.
February 2016	Efficient Private Statistics with Succinct Sketches , <i>Information Security Seminar at University College London</i> , London, UK.
February 2016	Efficient Private Statistics with Succinct Sketches , <i>23rd Network and Distributed System Security Symposium (NDSS 2016)</i> , San Diego, USA.

Work experience

May–June 2013	Business Intelligence consultant , ICONSULTING S.P.A., Bologna, Italy.
July–October 2013	Computer Vision researcher , T3LAB, Bologna, Italy.
November 2013–August 2014	Software Test Engineer Level II , GAMING LABORATORIES INTERNATIONAL (GLI), Bologna, Italy.

Language skills

Italian	Mother tongue	
English	Fluent	<i>Level C1, TOEFL internet based test with a score of 98 out of 120 (2014)</i>

London, April 15, 2016