

# Luca Melis

## Curriculum Vitae

Computer Science Dept,  
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📄 [lucamelis.github.io](https://lucamelis.github.io)



### Education

- September 2014–Present **PhD in Privacy Enhancing Technologies**, under the supervision of Dr. Emiliano De Cristofaro and Dr. George Danezis, University College of London.
- 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
- 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

### Research interests

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

### Visits/Internships

- 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.
- August 2012–January 2013 **EU Erasmus**, AARHUS UNIVERSITY, Aarhus, Denmark.  
Master's thesis preparation under the supervision of Claudio Orlandi and Ivan Damgård; Research on post quantum cryptography.

### List of publications

Hassan Jameel Asghar, Luca Melis, Cyril Soldani, Emiliano De Cristofaro, Mohamed Ali Kaafar, and Laurent Mathy. Splitbox: Toward efficient private network function virtualization. *3rd ACM SIGCOMM Workshop on Hot Topics in Middle-boxes and Network Function Virtualization (HotMiddleBox 2016)*, 2016.

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

May 2016	<b>Theory and Practice of Secure Multiparty Computation</b>	Aarhus, Denmark
April 2016	<b>Google's 1st PhD Student Summit on Web Application Security</b>	Google Munich, Germany
September 2015	<b>School on Foundations of Security Analysis and Design (FOSAD)</b>	Bertinoro, Italy
January 2015	<b>Privaski Workshop 2015</b>	Correncon, France
January 2015	<b>Real World Cryptography Workshop 2015</b>	London, United Kingdom
October 2014	<b>IACR CryptoAction School on Cryptographic Attacks</b>	Porto, Portugal
August 2011	<b>Computational Nanotechnology Summer School</b>	Gdansk University of Technology, Poland

## Teaching experience

Teaching Assistant	<b>Privacy Enhancing Technologies</b> , MSc IN INFORMATION SECURITY, University College London, Winter 2015, Winter 2016.
Teaching Assistant	<b>Publishing Scientific Papers with LaTeX/BibTex</b> , DOCTORAL SKILLS DEVELOPMENT PROGRAMME, University College London, Winter 2015.

## Talks

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

## Work experience

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

## Language skills

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

London, June 5, 2016