

MICHELE MINELLI

PERSONAL DATA



PLACE AND DATE OF BIRTH: Parma, Italy | 25 December 1992
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WORK EXPERIENCE

Feb. 2017 – Jul. 2017 **Internship at CryptoExperts**, Paris, France.
Topic: Implementation of Fully Homomorphic Encryption schemes.
Supervisors: Pascal Paillier and Louis Goubin

EDUCATION

2015 – **PhD in Cryptography**, Crypto Team – École normale supérieure, Paris, France.
Research topic: “Increased efficiency and functionality through lattice-based cryptography”.
Supervisors: Michel Abdalla and Hoeteck Wee

2013 – 2015 **Master’s Degree in Computer Engineering**, University of Parma, Parma, Italy.
Final grade: 110/110 *cum laude*
Thesis title: “Deep learning techniques for recognizing emotions in face images”.
Advisor: Prof. Stefano Cagnoni

2010 – 2013 **Bachelor’s Degree in Computer Engineering**, University of Parma, Parma, Italy.
Final grade: 110/110 *cum laude*
Thesis title: “TrackShot Golf: mobile application for the statistical analysis of golfers’ performance”.
Advisor: Prof. Stefano Cagnoni

2005 – 2010 **Diploma di maturità scientifica**, Liceo Scientifico “Giacomo Ulivi”, Parma, Italy.
Final grade: 100/100 *cum laude*

PUBLICATIONS

1. **Lattice-Based zk-SNARKs from Square Span Programs**
with Rosario Gennaro, Michele Orrù, and Anca Nitulescu
ePrint (<https://eprint.iacr.org/2018/275>)
2. **Fast Homomorphic Evaluation of Deep Discretized Neural Networks**
with Florian Bourse, Matthias Minihold, and Pascal Paillier
CRYPTO 2018, ePrint (<https://eprint.iacr.org/2017/1114>)
3. **Processing Encrypted Data Using Homomorphic Encryption**
with Anthony Barnett, Charlotte Bonte, Carl Bootland, Joppe W. Bos, Wouter Castryck, Anamaria Costache, Louis Goubin, Ilya Iliashenko, Tancrede Lepoint, Pascal Paillier, Nigel P. Smart, Frederik Vercauteren, Srinivas Vivek, and Adrian Waller
Workshop on Data Mining with Secure Computation, SODA project, 2017
4. **FHE Circuit Privacy Almost For Free**
with Florian Bourse, Rafaël Del Pino, and Hoeteck Wee
CRYPTO 2016, ePrint (<http://eprint.iacr.org/2016/381>)

TALKS AND PRESENTATIONS

1. **Automated Detection of Organized Crime Through Fully Homomorphic Encryption**
ECRYPT-NET School on Correct and Secure Implementation, 8-12/10/2017, Crete, Greece
2. **Increased efficiency and functionality through lattice-based cryptography**
ECRYPT-NET Cloud Summer School, 19-23/09/2016, KU Leuven, Leuven, Belgium
3. **FHE Circuit Privacy Almost For Free**
3rd Paris Crypto Day, 06/09/2016, INRIA, Paris, France

SCHOLARSHIPS AND CERTIFICATES

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|-----------------------|---|
| 3 years (2015 – 2018) | Researcher within EU-financed ECRYPT-NET project (HORIZON 2020 programme) |
| 5 years (2011 – 2015) | Scholarship of the University of Parma |
| 5 years (2007 – 2011) | Winner of a scholarship offered by BPER (<i>Banca Popolare dell'Emilia Romagna</i>) |
| 5 years (2007 – 2011) | Winner of a scholarship offered by Emilia Romagna region |

LANGUAGES

- ITALIAN: Mother tongue
ENGLISH: Full professional proficiency
FRENCH: Basic oral proficiency

COMPUTER SKILLS

Advanced knowledge: \LaTeX , LINUX (Ubuntu, Mint, Debian, Arch Linux), Word, Excel, PowerPoint, Access, HTML, git, svn
Programming languages: C, C++, Python, Java (also for Android development), Vb.Net, Matlab
Basic knowledge: PHP, MySQL

INTERESTS AND ACTIVITIES

- cryptography
- technology
- programming
- artificial intelligence
- neural networks
- open-source
- golf
- travelling
- chess
- music (mainly pop and classical)