

Andrea Cerulli

GRADUATE RESEARCHER · CRYPTOGRAPHER

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Education

University College London

London, United Kingdom

PHD CANDIDATE IN CRYPTOGRAPHY.

Sep. 2013 - Present

- Primary Supervisor: Prof. Jens Groth. Secondary Supervisor: Dr. Emiliano De Cristofaro.

Royal Holloway, University of London

London, United Kingdom

MSC IN MATHEMATICS OF CRYPTOGRAPHY AND COMMUNICATION. (DISTINCTION)

Sep. 2012 - Sep. 2013

- Thesis: *Multilinear Maps and Their Applications in Cryptography*. Supervisor: Prof. Kenny Paterson.

University of Turin

Turin, Italy

BSC IN MATHEMATICS. (106/110)

Sep. 2008 - Apr. 2012

- Thesis: *Factorization Algorithms of Polynomials*. Supervisor: Prof. Daniela Romagnoli.

Publications

- LINEAR-TIME ZERO-KNOWLEDGE PROOFS FOR ARITHMETIC CIRCUIT SATISFIABILITY.
Jonathan Bootle, Andrea Cerulli, Essam Ghadafi, Jens Groth, Mohammad Hajiabadi and Sune K. Jakobsen.
ASIACRYPT 2017
- A TOUCH OF EVIL: HIGH-ASSURANCE CRYPTOGRAPHIC HARDWARE FROM UNTRUSTED COMPONENTS.
Vasilios Mavroudis, Andrea Cerulli, Petr Svenda, Dan Cvrcek, Dusan Klinec and George Danezis.
ACM CCS 2017
- EFFICIENT ZERO-KNOWLEDGE PROOF SYSTEMS.
Jonathan Bootle, Andrea Cerulli, Pyrros Chaidos and Jens Groth.
Foundations of Security Analysis and Design VIII
- FOUNDATIONS OF FULLY DYNAMIC GROUP SIGNATURES.
Jonathan Bootle, Andrea Cerulli, Pyrros Chaidos, Essam Ghadafi and Jens Groth.
ACNS 2016
- EFFICIENT ZERO-KNOWLEDGE ARGUMENTS FOR ARITHMETIC CIRCUITS IN THE DISCRETE LOG SETTING.
Jonathan Bootle, Andrea Cerulli, Pyrros Chaidos, Jens Groth and Christophe Petit.
EUROCRYPT 2016
- SHORT ACCOUNTABLE RING SIGNATURES BASED ON DDH.
Jonathan Bootle, Andrea Cerulli, Pyrros Chaidos, Essam Ghadafi, Jens Groth and Christophe Petit.
ESORICS 2015

Teaching

Teaching Assistant

University College London

INTRODUCTION TO CRYPTOGRAPHY, MSC IN INFORMATION SECURITY

2013 - 2017

- Academic year: 2016/2017. Lecturer: Dr. Emiliano De Cristofaro.
- Academic year: 2015/2016. Lecturer: Dr. Emiliano De Cristofaro.
- Academic year: 2014/2015. Lecturer: Dr. Emiliano De Cristofaro.
- Academic year: 2013/2014. Lecturers: Prof. Jens Groth & Dr. Christophe Petit.

Service

- 2018 **EUROCRYPT, FC, CRYPTO**, External Reviewer
- 2017 **AFRICACRYPT, IMACC, PKC**, External Reviewer
- 2016 **ACNS, AFRICACRYPT, ASIACRYPT, CRYPTO, PKC**, External Reviewer
- 2015 **ASIACRYPT, CT-RSA, EUROCRYPT, FC, PKC**, External Reviewer
- 2014 **PKC**, External Reviewer