

Cryptographic researcher working on practical and theoretical aspects of post-quantum cryptography: construction and cryptanalysis of cryptographic schemes, mathematical optimisation for embedded devices, computational mathematics. Strong background in mathematics and information security, with technical experience with different programming languages and and operating systems.

WORK EXPERIENCE

Aug 2022 – Feb 2023	Research Scientist Intel Labs, Switzerland <ul style="list-style-type: none">Researcher working on post-quantum cryptography
July 2021 – Aug 2022	Post-doctoral researcher Applied Cryptography Group, ETH Zurich, Switzerland <ul style="list-style-type: none">Researcher working on applied cryptographyTeaching assistant and Bachelor's and Master's project supervisor
May - Aug 2019	Cryptography research intern Microsoft Research, United States <ul style="list-style-type: none">Security analysis of AES block cipher against quantum computers, using Q#Code-base and results made public at github.com/microsoft/grover-blocks
May - Aug 2018	Cryptography research intern Microsoft Research, United States <ul style="list-style-type: none">C implementation of parallel collision finding for cryptanalysis of SIKECode-base and results made public at github.com/microsoft/vOW4SIKE
Aug 2014 – Jul 2016	Front and back end developer <i>Freelance, United Kingdom and Italy</i> <ul style="list-style-type: none">Web developer, plugin developer (Wordpress), custom back end refactoringRewrote and expanded previous code-bases, adding interactivity and layout responsiveness
Mar 2015 – Sep 2015	JavaScript developer, system administrator <i>Pro Gamma SpA, Italy</i> <ul style="list-style-type: none">Developed the mobile stack for the company's new JavaScript IDE, DevOpsUsed technologies: FreeBSD, JavaScript/NodeJs, Apache Cordova

PUBLICATIONS

A full list of scientific publications can be found on my [personal website](#), or on [Google Scholar](#).

EDUCATION

Sep 2016 – Jun 2021	PhD Information Security Royal Holloway, University of London, <i>United Kingdom</i>
Oct 2015 – Sep 2016	MSc Applied Mathematics, Distinction <i>Imperial College London, United Kingdom</i>
Oct 2011 – Aug 2014	BSc Mathematics, First Class Honours degree <i>Imperial College London, United Kingdom</i>

SKILLS

Languages	English proficient user, Italian and Spanish native speaker
IT	<ul style="list-style-type: none">Languages: JavaScript (including NodeJs and jQuery), C, Php, Python, SageMathLanguages: Matlab, HTML5, CSS3, Sql, VB.Net, MapleOperating systems: GNU/Linux, FreeBSD, Cygwin, WindowsSoftware: GCC, Make, SSH, VirtualBox, music editing and broadcasting software
Leadership and communication	<ul style="list-style-type: none">Chairman of the Linux Users' Group, year 2013-2014Coordinator of the students' society at school, moderator of school assembliesMember of the students' parliament of the Province of Milan

INTERESTS

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- Rock climbing