

PERSONAL DATA

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PROJECTS / WORK EXPERIENCE

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| APR-SEP 2019 | Commissariat à l'énergie atomique CEA-List, Saclay
<i>Internship - Homomorphic Cryptography</i>
Development of Boolean Circuit Optimization techniques and tools specific to the constraints of Homomorphic Cryptography in order to minimize induced noise and thus improve the performances. |
| JAN-FEB 2019 | PARIS-SACLAY UNIVERSITY, Versailles
<i>Master Project - Algorithmic and Cryptography</i>
Schoof's Algorithm for Point Counting on an Elliptic Curve over a Finite Field. Theory and efficient C implementation using FLINT library |
| 2017 - 2018 | Paris 8 University, Paris
• Homomorphic Encryption - Theoretical study of Lattice-Based Cryptography, Reduction by LLL and Application to electronic voting system and cloud computing. |
| 2017 - 2018 | • Cryptography on smart cards - Simulation of an electronic wallet, a SIM card and implementation of the RSA encryption algorithm. Theoretical study of the concept of security for each project and solutions against some non-invasive attacks. |
| 2016 - 2017 | • Elliptic-curve cryptography - The main purpose was to establish a comparison between the affine and projective coordinates, to conclude the best choice when performing computations over the points of a curve. |

EDUCATION

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| Current | PhD Student, Télécom Paris and Thales
Adaptive cryptographic architecture for connected and autonomous vehicles |
| 2018 - 2019 | Master 2 - Applied Algebra to Cryptography, Paris-Saclay University
Fondation Mathématiques Jacques Hadamard Major: Cryptography, Algebraic curves |
| 2017 - 2018 | Master 1 - Applied Mathematics for Information Security, Paris 8 University
Major: Cryptography, Coding Theory |
| 2016 - 2017 | Bachelor's degree - Applied Mathematics, Paris 8 University |

SKILLS

- COMPUTER SKILLS : C, SAGE, CAML, PYTHON, LINUX, ARDUINO, \LaTeX
- LANGUAGES : ENGLISH : Fluent | FRENCH : Fluent | BERBÈRE : Mothertongue

INTERESTS AND ACTIVITIES

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| FEB-MAR 2018 | PARIS 8 UNIVERSITY, Paris
• <i>Electronic and Computing : Smart Card Programming Workshop</i>
Manufacture of a smart card programmer and a smart card, print circuits on copper plates with G-code, assembling then activation. Used for implementations. |
| 2016 - 2018 | • <i>Mathematics Tutoring</i> : Student advice and assistance in Mathematics, help preparing for the final exams. |