

# Matthieu Giraud

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Born: January 30, 1987 – Fontenay-le-Comte, France

Nationality: French

## Current position

*PhD student in cryptography* since October 2016 under the supervision of [Dr Pascal Lafourcade](#).  
The subject of my thesis is the *Security of Data Numerisation and Storage*.

## Research interests

I am interested in cryptography, privacy and everything in between and around these topics. I am currently working on privacy for the Cloud and particularly on *Symmetric Searchable Encryption*, *Private Polynomial Evaluation*, *Secure Distributed Computing* and *Watermarking* schemes.

## Internships

- 2017 *Security of IoT Devices*, Pr Manik Lal Das, DI-IICT, Gandhinagar, India
- 2016 *Cryptanalysis of Symmetric Searchable Encryption (SSE) schemes*, Alexandre Anzala-Yamajako and Olivier Bernard, Thales Communications and Security, Gennevilliers, France

## Education

- 2016 Master in Cryptography and IT Security, Université de Bordeaux, France
- 2014 Bachelor's Degree in Mathematics, Université de Nantes, France

## Publications

### INTERNATIONAL CONFERENCES

- 2017d “*Verifiable Private Polynomial Evaluation*” by Xavier Bultel, Manik Lal Das, Hardik Gajera, David Gérard, Matthieu Giraud, and Pascal Lafourcade. The 11th International Conference on Provable Security (ProvSec).
- 2017c “*Secure Matrix Multiplication with MapReduce*” by Xavier Bultel, Radu Ciucanu, Matthieu Giraud, and Pascal Lafourcade. The 12th International Conference on Availability, Reliability and Security (ARES).

2017b “*Formal Analyze of a Private Access Control Protocol to a Cloud Storage*” by Narjes Ben Rajeb, Mouhebeddine Berrima, Matthieu Giraud, and Pascal Lafourcade. The 14th International Conference on Security and Cryptography (SECRYPT).

2017a “*Practical Passive Leakage-Abuse Attacks Against Symmetric Searchable Encryption*” by Alexandre Anzala-Yamajako, Olivier Bernard, Matthieu Giraud, and Pascal Lafourcade. The 14th International Conference on Security and Cryptography (SECRYPT).

## Talks

### INTERNATIONAL CONFERENCES

Oct. 2017 “*Verifiable Private Polynomial Evaluation*”. ProvSec, Xi’an, China, October 23, 2017.

Aug. 2017 “*Secure Matrix Multiplication with MapReduce*”. ARES, Reggio Calabria, Italy, August 29, 2017.

Jul. 2017 “*Formal Analyze of a Private Access Control Protocol to a Cloud Storage*”. SECRYPT 2017, Madrid, Spain, July 26, 2017.

Jul. 2017 “*Practical Passive Leakage-Abuse Attacks Against Symmetric Searchable Encryption*”. SECRYPT 2017, Madrid, Spain, July 26, 2017.

### SEMINARS

Jan. 2017 “*Practical Passive Leakage-Abuse Attacks Against Symmetric Searchable Encryption*”. PhD students’ seminar, LIMOS, Université Clermont Auvergne (France), January 13, 2017.

## Events

Dec. 2017 *Black Hat Europe Conference*. London, United Kingdom, December 4-7, 2017.

Jul. 2017 *Summer school on real-world crypto and privacy*. Sibenik, Croatia, July 5-9, 2017.

## Teaching

2017-2018 Introduction to Computer Security  
IUT Réseaux et Télécoms, Université Clermont Auvergne, France  
Level: L3 | Language: French | Volume: 10h

Security Models  
ISIMA, Université Clermont Auvergne, France  
Level: M2 | Language: English & French | Volume: 24h

Security of Information Systems  
Université Clermont Auvergne, France  
Level: M2 | Language: French | Volume: 12h

2016-2017 Certificat Informatique et Internet (C2i)  
Institut Universitaire de Formation Ergothérapie d’Auvergne, Université Clermont Auvergne, France  
Level: Graduate | Language: French | Volume: 56h

## Service to the profession

### REVIEWING SERVICE

Conferences: AlgoTel’17 | ATC 2017 | C&SS’17 | PST 2017.

## Organiser

I am involved in the organisation of the PhD students' seminar of the LIMOS.

## Contribution

Sharing of TikZ codes on *TikZ for Cryptographers*.

## Programming skills

Languages: C, GO, PARI/GP, PYTHON

Software: OCTAVE, MATLAB, SAGEMATH

Tools: L<sup>A</sup>T<sub>E</sub>X, EMACS, GIT

Others: HTML, REDIS, SSDB

## Languages

French: Mother tongue

English: Fluent

Spanish: Notions