

# Simon Fernandez

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## Education

### PhD in Computer Science

*Supervised by Andrzej Duda and Maciej Korczynski*  
DNS as a source of Trust and Information for the Modern Internet

Université Grenoble Alpes

2020–2023

### ENS de Lyon Diploma

*Computer Science Department*

ENS de Lyon

2016–2020

### Degree & Master's Degree in Computer Science

*Specialisation in Complex Systems*

ENS de Lyon

2016–2019

### Degree in Mathematics

*Double Degree with ENS de Lyon*

University Lyon 1

2016–2017

### High School Preparatory Class

*Maths, Physics & Computer Science*

High School Preparatory School Aux Lazaristes

2014–2016

### Scientific Baccalaureate Scientific

*With honours*

High School Sainte-Marie Lyon

2011–2014

## Computer Science

**Programming:** Python, Rust, C, C++, OCaml, Bash, LaTeX

**Systems:** Linux, Archlinux, Ubuntu, Debian

## Languages

**French:** Native

**English:** C1-Advanced (CAE certified)

**Spanish:** Intermediate

**Japanese:** Beginner

## Publications

### Semantic Identifiers and DNS Names for IoT

*S. Fernandez, M. Amoretti, F. Restori, M. Korczynski, A. Duda*  
doi:10.1109/ICCCN52240.2021.9522285

ICCCN

2021

### Early Detection of Spam Domains with Passive DNS and SPF

*S. Fernandez, M. Korczynski, A. Duda*  
doi:10.1007/978-3-030-98785-5\_2

PAM

2022

### Study on Domain Name System (DNS) Abuse: Technical Report

*J. Bayer, Y. Nosyk, O. Hureau, S. Fernandez, I. Paulovics, A. Duda, M. Korczyński*  
doi:10.2759/473317

CoRR

2022

### Unveiling the Weak Links: Exploring DNS Infrastructure Vulnerabilities

*Y. Nosyk, O. Hureau, S. Fernandez, A. Duda, M. Korczyński*  
doi:10.1109/EuroSPW59978.2023.00067

Euro S&P

2023

## Teaching Experiences

### Intro to Cybersecurity – Labs & Lectures

*With Maciej Korczynski*

Grenoble INP

2020 – 2023

### Principles of the Internet – Labs

*With Andrzej Duda and Olivier Alphand*

Grenoble INP

2020 – 2023

### Engineering of Cybersecurity – Labs & Lectures

*With Maciej Korczynski*

Grenoble INP

2021 – 2023

## Research Experiences

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<b>UGA, LIG, Drakkar – Andrzej Duda</b> <i>Post-Doc</i>	<b>Grenoble, France</b> <i>March 2024 – August 2024</i>
<b>University of Cambridge – CST – Jon Crowcroft</b> <i>Visiting Scholar</i>	<b>Cambridge, United-Kingdom</b> <i>February 2024 – April 2024</i>
<b>Parma University, DEA, DSG – Michele Amoretti</b> <i>Information encoding in DNS name for IoT</i>	<b>Parma, Italy</b> <i>Mach 2020 – June 2020</i>
<b>UGA, LIG, Drakkar – Andrzej Duda</b> <i>DNS Naming and Services for Secure Seamless IoT</i>	<b>Grenoble, France</b> <i>October 2019 – February 2020</i>
<b>ENS de Lyon, IXXI, LIP, DANTE – Isabelle Guérin Lassous</b> <i>Modeling and measuring power consumption in wireless networks</i>	<b>Lyon, France</b> <i>January 2019 – July 2019</i>
<b>UQÀM, Latece – Sébastien Gambs</b> <i>Peer to peer end to end encrypted and signed Group messaging protocols</i>	<b>Montréal, Canada</b> <i>May 2018 – July 2018</i>
<b>Institut Mines Télécoms (IMT) Atlantique – Vincent Gripon</b> <i>Grammar inference by neural networks with external memory</i>	<b>Brest, France</b> <i>June 2017 – July 2017</i>

## Scientific Communication

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<b>Science Festival</b> <i>Volunteer. Talking with young students about research</i>	<b>Grenoble, France</b> <i>2022</i>
<b>PhD Days</b> <i>Poster and presentations to other PhD students</i>	<b>Grenoble, France</b> <i>2022</i>
<b>French Society of Computer Science Days</b> <i>Paper presentation</i>	<b>Remote</b> <i>2021</i>

## Other Experiences

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<b>President of the Bureau Ludique de l'ENS de Lyon</b> <i>President of the association organizing recreational activities on campus</i>	<b>Lyon</b> <i>2019–2020</i>
<b>Vice-President of the Council of Studies and Student Conditions (CEVE)</b> <i>Elected student representative at ENS de Lyon</i>	<b>Lyon</b> <i>2017–2019</i>
<b>Oral examinations of students in High School Preparatory School</b> <i>Oral Examiner in Mathematics - CPGE Aux Lazaristes</i>	<b>Lyon</b> <i>2017–2018</i>
<b>Treasurer for the Association for Open Informatics in ENS de Lyon (AliENS)</b> <i>Managing the treasury &amp; subventions. Organisation of workshops around free software</i>	<b>Lyon</b> <i>2016–2021</i>
<b>Tutoring - Lycée Sainte-Marie &amp; University of Lyon</b> <i>To students in secondary school, high school, university, and High School Preparatory</i>	<b>Lyon</b> <i>2011–2019</i>
<b>Youth Worker - Oeuvre universitaire du Loiret</b> <i>1 month camp. Hiking, mountain and horseriding with children between 8 and 13</i>	<b>Lans-en-Vercors</b> <i>2016</i>
<b>Youth worker - Caluire Jeunes</b> <i>1 month. Organising daily activities for children between 11 and 17</i>	<b>Caluire-et-Cuire</b> <i>2014</i>

## Spare time

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**Hiking, Rock Climbing, Reading, Coding:**

**Music, Guitar:**

**Open Source projects contributor:** OpenStreetMap & other projects

## Others

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○ Driving License: since 2015.

○ BAFA (Youth Worker certification): since 2015.

○ Cambridge Advanced Exam: C1 certified in 2018.