



# Achille Salaün

PhD in Computational Mathematics



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## About me

I recently defended my thesis and am eager to take my next step in the research world! In particular, I feel like I still have a lot to discover from both a human and scientific perspective. Therefore, *I am currently looking for a postDoc abroad* (ideally in Eastern Asia).

## Skills

Machine learning

Python

Matlab

LaTeX

(\*)[The skill scale is from 0 (Fundamental Awareness) to 5 (Expert).]

## Languages

French

English

Chinese

(\*)[The language scale is from 0 (Fundamental Awareness) to 5 (Expert).]

## Research interests

Machine learning • Pattern matching • Generative models

## Education

- 2017-2021 Ph.D. in Mathematics at interfaces Institut Polytechnique de Paris  
*Alarm prediction in networks via space-time pattern matching and machine learning*
- 2015-2017 Master's degree in Data Science and Engineering EURECOM
- 2014-2017 Engineering degree Télécom Paris

## Publications

- 2021 Alarm prediction in networks via space-time pattern matching and machine learning Thesis  
*Achille Salaün*
- 2020 Demo: end-to-end root cause analysis of a mobile network Infocom  
*Achille Salaün, Anne Bouillard, Marc-Olivier Buob*
- 2020 DIG-DAG: stockage et recherche de motifs dans un flux d'événements Algotel  
*Anne Bouillard, Marc-Olivier Buob, Achille Salaün, Maxime Raynal*
- 2019 Comparing the modeling powers of RNN and HMM ICMLA  
*Achille Salaün, Yohan Petetin, François Desbouvries*
- 2019 Space-time pattern extraction in alarm logs for network diagnosis MLN  
*Achille Salaün, Anne Bouillard, Marc-Olivier Buob*
- 2018 Log analysis via space-time pattern matching CNSM  
*Anne Bouillard, Marc-Olivier Buob, Maxime Raynal, Achille Salaün*

## Projects

- 2017-2021 veggie: Python 3 implementation of DIG-DAG related algorithms.
- 2020 pybgl: contributions to a Python 3 library providing graph tools.

## Experience

- 2017-2021 PhD Télécom SudParis, Nokia Bell Labs  
*My PhD was an industrial one (CIFRE) between Télécom SudParis (SAMOVAR) and Nokia Bell Labs, under the supervision of François Desbouvries, Anne Bouillard, Marc-Olivier Buob, and Yohan Petetin.*  
*Apart from the theoretical work, my thesis shows a strong applied component. Indeed, Anne, Marc-Olivier and I implemented our DIG-DAG related algorithms into a Python 3 module, which has been at the core of a collaboration with Nokia's business units*
- 2018-2020 Teaching Télécom SudParis  
*For two consecutive years, I supervised labs sessions for a course on Scientific Calculus (Master 1) and another one on Image Segmentation with Hidden Markov Models (Master 2) at Télécom SudParis.*

## Hobbies

In my spare time, I love to *draw* on my pen tablet. By the way, if you are curious about my creations, have a look at my instagram : [@achillesalaun](#). In addition, I also used to do *fencing* before pandemic. As soon the situation is stabler, I rush on the pistes!