



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!