Achille Salaün

PhD in Computational Mathematics

25 May 1993

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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 PhD in Computational Mathematics — Institut Polytechnique de Paris

Title: *Alarm prediction in networks via space-time pattern matching and machine learning*

Supervision: *François Desbouvries, Anne Bouillard, Marc-Olivier Buob, Yohan Petetin*

Funding: *Industrial PhD (CIFRE) between Télécom SudParis (SAMOVAR) and Nokia Bell Labs*

2015-2017 Master's degree in Data Science and Engineering — EURECOM

2014-2017 Graduate Engineer (*Diplôme d'ingénieur*) — 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 in Computational Mathematics — Télécom SudParis, Nokia Bell Labs

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 lab sessions for a course on Scientific Calculus (Master 1) and another one on Image Segmentation with Hidden Markov Models (Master 2) at Télécom SudParis.