



Achille Salaün

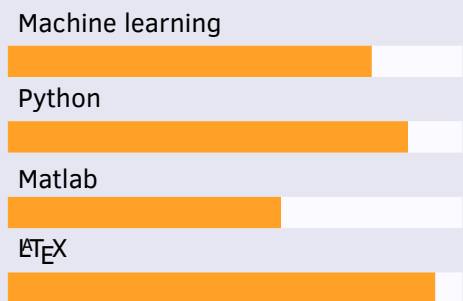
Postdoctoral Research Assistant

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About me

I am a postdoctoral research assistant at the University of Oxford, developing interpretable machine learning models for clinical decision support in kidney transplant offering. More generally, I enjoy working on applied machine learning problems, collaborating with experts, and building interpretable tools for them.

Skills*



Languages*



* Scales are from 0 (eElementary) to 5 (Expert).

Research interests

Machine learning • Interpretability • 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
- 2014-2017 Graduate Engineer (*Diplôme d'ingénieur*) - Master's degree
Télécom Paris
- 2015-2017 Télécom Paris' Master specialization in Data Science and Engineering
EURECOM

Publications

- 2022 Clinical decision support systems used in transplantation: are they tools for success or an unnecessary gadget? Transplantation
Wingfield L. R., Salaün A., Khan A., Webb H., Zhu T., Knight S.
- 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

- 2022-now xamelot Python 3 library for explainable ML in organ transplant.
- 2017-2021 veggie Python 3 implementation of DIG-DAG related algorithms.
- 2020 pybgl contributions to a Python 3 library providing graph tools.

Experience

- 2022-Now Postdoctoral Research Assistant University of Oxford
At the CHI Lab (IBME, University of Oxford), I aim at the creation of an interpretable ML decision support system for kidney transplant offering. This work is done with the collaboration of two clinicians.
- 2017-2021 PhD in Computational Mathematics Télécom SudParis, Nokia Bell Labs
My thesis shows a strong applied component: DIG-DAG related algorithms have been implemented into a Python 3 module, which has been at the core of a collaboration with Nokia's business units.
- 2018-2020 Teaching Télécom SudParis
I supervised lab sessions on Scientific Calculus (Master 1) and Image Segmentation with HMM (Master 2) at Télécom SudParis.