

# Alexis PISTER

## Double degree in Bioinformatics (INSA) | Artificial Intelligence (Lyon 1)

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Born the 10th of November, 1996



## EDUCATION

- 2019 - 2022 Phd in **data mining** and **visualization**, INRIA Saclay
- 2018 - 2019 Master of **Artificial Intelligence**, Lyon 1 University
- 2016 - 2019 Engineer degree in **Bioinformatics and modeling**, INSA Lyon
- 2014 - 2016 Bachelor in biology (2 years), Sorbonne University, Paris

## WORK EXPERIENCES

- August 2019  
February 2019
- R&D internship in machine learning applied to Natural Language Processing (NLP), MONDECA, Paris
- > Comparative study and optimization of machine and deep learning algorithms for **named entity recognition** tasks on large corpora
  - > **Alert detection** on text corpus with word embedding and machine learning algorithms
  - > Use of **graph embedding** methods for triplets classification in a knowledge graph
  - > Development of features for a text annotation software

Java Python Scikit-learn Keras

- August 2018  
May 2018
- Research internship in Image processing and radiomics, IMIV/INSERM/CEA, Orsay
- > Study of an MRI standardization method called "hybrid white stripe", in particular for the borderline cases
  - > Realization of an **MRI standardization pipeline** which is now **used for research purposes**
  - > Computing and analysis of **radiomic features** of MRI images

Python R Bash

## COMPUTER SKILLS

- Programming** Python, R, Java, C++, Latex, Bash, HTML, CSS, Javascript
- Frameworks** Numpy, Pandas, Scikit-learn, Keras, Pytorch, Spacy, Flask, D3JS
- Databases** SQL, Triplestores
- Operating systems** Linux, Windows
- Softwares** Git, Maven, Subversion, Knime, LIFEx

## SIDE PROJECTS

### TROLL-D

2019

[github.com/AlexisPister/Troll-d](https://github.com/AlexisPister/Troll-d)

Machine learning study for the detection of troll messages. The best model is hosted in the cloud

Scikit-learn Flask HTML

### VAD-DEEP

2018

[github.com/AlexisPister/VAD-Deep](https://github.com/AlexisPister/VAD-Deep)

Voice Activity Detector system which detects frames of speech in audio samples with a deep neural network

Python Pytorch

## LANGAGES

French ● ● ● ● ●  
English ● ● ● ● ○  
Spanish ● ● ● ○ ○

## + HOBBIES

- > **Music** : Bass guitar and guitar (8 years), Piano and electronic music (3 years)
- > **Sports** : Biking, tennis
- > **Reading** : Newspapers, novels, comic strips