

# Jules Bangard

## PhD Student in Statistics

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🌐 github.com/JulesBa-Git

🌐 bangard.xyz

### LANGUAGES

French : Mother tongue

English : Fluent

German : Beginner

Polish : Beginner

### GENERAL SKILLS

#### Programmation:

R, C/C++, Python (Scikit-learn, Tensorflow, Keras, Matplotlib, Streamlit, Pyspark),

JAVA (Hadoop), SQL, C#

#### Machine Learning:

Regression, Classification, Monte-Carlo Methods (e.g. MCMC), Deep learning

#### Statistics:

Hypothesis testing, Dimensionality reduction (PCA, CA), Clustering

#### Others:

Git, Shell/Bash,  $\LaTeX$

### COURSEWORK

Statistics & Linear Algebra

Advanced Algorithmic

Complex Systems

Artificial Intelligence

Data Analysis

Machine Learning

Natural Language Processing

Distributed Systems

Data Warehouse

09.13.2024

### EDUCATION

#### Université de Strasbourg

PhD in Statistics

2023 - present

Strasbourg

#### Université de Strasbourg

Master's degree in Data Science and Complex Systems

With honours

2021 - 2023

Strasbourg

#### Université de Haute-Alsace

Bachelor's degree in Computer Science

With honours

2018 - 2021

Mulhouse

Rank 1/35

### EXPERIENCES

**Université de Strasbourg, IRMA Laboratory** February 2023 - August 2023

Subject : Statistical algorithms for the detection of adverse reaction of drug cocktails

The goal of this project was to study and implement a search algorithm for couples (drugs/drug classes, Adverse Event) with a high risk using Monte-Carlo Markov Chain method. Implementation was done with R and C++ languages.

#### Deep learning for the linguistic description of images

University project for the second year of my master's degree

Implementation of a deep neural network allowing the description of images in natural language.

- Realization of a state of the art report.
- Developed a deep understanding of transformers architecture.
- Deployment of the model on a website allowing the use of the model in a simple and fast way.

**Infosat** May 2021 - August 2021

Internship

Software development and language migration for the company

Infosat

- Object-Oriented Programming (C#).
- Work in a large team of IT Developer.
- Using GIT as the version control system.