



## FABIEN FURFARO, 31 YEARS OLD

### DATA SCIENTIST

## PROFESSIONAL EXPERIENCE

### CONTACT

fabien.furfaro@gmail.com  
+336 66 92 16 76  
@fabienfrfr

### PROFIL

I am a complex systems physicist with a particular interest in interdisciplinary projects. I am interested in machine learning, data innovation and skills sharing.

### SKILLS

- **Programming** : Python - C# - Bash - JavaScript
- **Database** : SQL
- **Data Collection** : Web Scraping - Port sniffing
- **Data Analysis**
- **Data Visualisation**
- **Graph Visualisation**
- **Data Model-Prediction** : Sklearn - PyTorch
- **Versioning** : Git
- **Language** : French, English
- **Science communication**
- **Others** : Web API

### INTERESTS

- **Creative Coding** (Instagram)
- **Educational Game** (Itch.io)
- Hiking, Cycling and CrossFit.
- Popular science
- **Volunteering (Data)**

SEP 2021 -

**Data Scientist - Freelance**

INSEP, Paris 12<sup>th</sup>

Collaboration with Geoffroy Berthelot and Avner Bar-Hen (CNAM) on the construction of a new algorithmic method for the data prediction and reinforcement learning by neuro-evolution and graph.

----- Professional reorientation (Data Science) -----

SEP 2015 - SEP 2019

**Physicist - PhD**

MSC Laboratory, Paris 13<sup>th</sup>

Management : Benoit Sorre. Work in collaboration with Jerome Collignon, Jacques Monod Institute (Biologist). Characterization of the cell differentiation trajectory (Dimensionality Data Reduction, Data Clustering and Data Segmentation.).

MAY 2014 - AUG 2014

**Physicist - Intern**

École normale supérieure (LPS), Paris 5<sup>th</sup>

Management : Nicolas Desprat.

Bacterial colony morphogenesis study.

MAY 2013 - JUL 2013

**Physicist - Intern**

MSC Laboratory, Paris 13<sup>th</sup>

Management : Vincent Fleury

Vertebrate morphogenesis study.

## EDUCATION

2021

**Mathematics (Preparation)**

**Agrégation**

Académie Créteil-Paris-Versailles

2020

**FAST-AI & DEEPMATH (MOOC)**

Machine Learning, Neural Networks, Data Mining, Data analysis, Data visualisation and supervised and unsupervised learning.

2015

**Msc in Applied Physics**

Université Paris Diderot

Probabilities, Statistics, Calculus, Simulation, Modelization, Signals Analysis, Control Theory.