



Vincent Lefoulon

Python Programming & Data Science

Contact

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Programming

- Python
- SQL, MongoDB
- Docker
- REST API (Django)
- Web front-end
- AWS
- C, Go, Java, Arduino

Data Science

- numpy, pandas, dask, sk-learn, Tensorflow...
- Sensitivity analysis
- Time series analysis
- Bayesian statistics

Interests

- Science
- Philosophy
- Climbing
- Yoga
- Education
- [Environment](#)

Work experience

09/18 - 01/19 **Data Scientist and Scientific Programmer for Simulation Models**

[Simudyne](#) (London, United Kingdom)

I use the Python ecosystem to build statistics-based tools and visualizations to validate and analyze simulation models. It includes sensitivity analysis, time series analysis, space exploration, likelihood-free inference... These tools are shipped into a Python library that is used as a data pipeline.

03/18 - 08/18 **R&D Intern in Data Science for Agent-Based Modelling**

[Simudyne](#) (London, United Kingdom)

I used Python to validate and analyse agent-based models, including a Kolmogorov-Smirnov test for time series, sensitivity analysis and visualisations.

06/17 - 08/17 **Intern in Web development for open-source project [IEML](#)**

[University of Ottawa](#) (Montreal, Canada)

I built a REST API with Django (Python) to expose a MongoDB database to a jQuery-based front-end I also contributed to.

Education

2015 - 2018 **Master's degree in Information Systems Engineering**

[Ensimag](#) (Grenoble, France)

2013 - 2015 **Classes préparatoires aux Grandes Écoles - Mathematics/Physics**

[La Martinière Monplaisir](#) (Lyon, France)

Personal work

December 2018 **Farm domotics**

[GitHub](#) (Code project - Python & Arduino)

December 2018 **Introduction aux systèmes distribués**

[Zeste de Savoir](#) (Publication)

December 2017 **KRACK : attaques contre les communications Wi-Fi**

[Zeste de Savoir](#) (Publication)

November 2015 **L'arbre de Stern-Brocot : énumération des rationnels**

[Zeste de Savoir](#) (Publication)

More on <https://vayel.github.io>.

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