

JULES MABON

ENGINEER IN DATA-SCIENCE

PhD Student at INRIA Sophia Antipolis

TRAINING

2016-2019 Master's degree in Engineering at [Ecole Centrale de Lille](#)

One of the top multidisciplinary engineering schools in France

Common core : Aero/Hydrodynamics, Thermodynamics, Signal processing, Project management, Materials science etc...

Specialization : [Option DAD](#) (Decision & Data Analysis) : Probability and statistics, optimization, **machine learning** ...

2018-2019 Applied Mathematics (Master 2) at *Université de Lille*

Functional analysis, Stochastic process, Itô integrals, Statistical physics

2018 M.O.O.C. : Machine learning, Stanford University

Online courses on Coursera

2014-2016 Classes Préparatoires aux Grandes Ecoles

LANGUAGES

French ●●●●●

English ●●●●○

Spanish ●●○○○

German ●○○○○

SKILLS

Microsoft Office ●●●●○

Latex ●●●○○

Java/C# ●●●○○

Python ●●●●○

C ●●○○○

Matlab ●●○○○

Linux ●●●○○

Arduino Raspberry pi ●●○○○

Catia V5 ●●○○○

Photoshop ●●●○○

Illustrator ●●●○○

Blender 3D ●●●●○

PROFESSIONAL EXPERIENCE

2019 Research internship at [EMBL-EBI](#) in Cambridge

6 months

Final year intership in [Virginie Uhlmann's research group](#). Improving **detection** and **tracking** of individual *Mycobacteria smegamatis* in time lapse microscopy images of growing colonies, using **graphical models** and **convolutional neural networks**.

2018 R&D Internship at [NU!](#) (startup in Paris)

4 months

Research, development and documentation on a **product recognition system** for a "connected fridge" using image processing. **Experimentation** on several methods from simple image differences (**OpenCV**) to **neural networks** for object recognition (**Tensorflow**).

2018 Research project : in computer science with [CRISTAL](#)

Initiation at research work on the subject of **matrix factorization for recommendation systems**. Study of research publications and implementation of machine learning and optimization algorithms to produce such recommendation systems such as used with Netflix or Spotify.

2016-2018 Group project : «Hôpital sous tension»

Use of **multi-agent systems** to simulate and observe sources of **tension** in the emergency services of the **Hospital Center of Lille** in partnership with computer science laboratory **CRISTAL**.

2017 Internship at **Thales Skycenter Innovation Lab**

4 weeks

HOBBIES

Creation and presidency of a **graphic arts club** at *Ecole Centrale de Lille* aiming at sharing skills and techniques among the students and also organize creation workshops and training.

Art : Drawing, Making posters, logos, paper craft, 3D modeling / animation (Blender 3D) ([personal portfolio](#))

Music : Electric and acoustic guitar