



# GAUGAIN GABRIEL

BIOMEDICAL ENGINEER

## PROFILE

Extremely motivated to constantly develop my engineer and scientist skills and grow professionally. I am confident in my ability to come up with interesting ideas to drive science forward

## CONTACT



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## SKILLS

### Language :

English C1 (Bullats/OLS)  
Spanish B1

### Programming :

Python (MNE,sklearn,  
Tensorflow, pandas, Django)  
Matlab (EEGLAB),  
C/C++

## AREAS OF FOCUS

Sport (musculatation, ju jitsu,  
climbing)  
Scientific press  
Cinema

## EDUCATION

**Imperial College  
London**



- **2018 - 2019**, Imperial Colledge London, Bioengineering department, Biomedical Engineering (occasional)
- **2016-2019**, Engineering School of Physic Electronic and Material Grenoble INP (Phelma) - Biomedical Engineering, 38000 Grenoble
- **2013 - 2016**, Classe Pre-engineering : preparation in maths, physics and chemistry for the national competitive entrance exams to French 'Grandes Ecoles' , Lycée Victor Hugo, 14000 Caen

## WORK EXPERIENCE

### **Lyon Neuroscience Research Center, design and research engineer**

NOV - DEC 2019, 69500 BRON

- Data processing from EEG and LFP recordings in mice during sleep
- Database building to apply supervised learning algorithm (deep learning or other machine learning methods).
- Literature review of machine learning technics to classify sleep and activity stage in rodents



**Imperial College  
London**

### **Imperial Colledge London, Final study project**

JAN 2019 - JUN 2019

- Music processing in the brain, in the Sensory Neuroengineering Lab
- Designing neuroscientific protocol, performing EEG on several subjects, leading EEG data processing

### **Lyon Neuroscience Research Center, intern as engineering student**

MAY 2018 - AUG 2018

- In the growing team AcCoRD
- EEG data processing from patient with Parkinson's disease (ICA, preprocessing and filtering, time-frequency analysis..)
- Understanding the Parkinson problematic about motricity inhibition



**BOSCH**

### **Bosch Mondeville, Blue-collar intern**

JUN 2017 - JUL 2017

- ALearning about the sector and how the compagny works
- Working on components insertion on electronic boards