



# Grégoire PETIT

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As a student with a passion for theoretical science, I chose to pursue demanding studies which combine *Computer science*, *Mathematics* and *Signal Processing*, before specializing in *Machine Learning: Class-Incremental Learning without Memory*.

## EXPERIENCE



### 3-year PhD contract at **CEA TECH**

2020-Current

AI / Machine Learning / Deep Learning / Dynamic Data  
Class-Incremental Learning without Memory.



### Teaching Assistant at **ÉCOLE NATIONALE DES PONTS ET CHAUSSÉES & CENTRALESUPELEC** 2022-Current

Machine Learning for Master of Engineering students  
Deep Learning for Master of Engineering students



### Teaching Assistant at **ÉCOLE NATIONALE DES PONTS ET CHAUSSÉES, CENTRALESUPELEC & TÉLÉCOM PARIS** 2021-2022

Machine Learning for Master of Engineering students  
Deep Learning for Master of Engineering students  
Machine Learning for Master 2 Data and Artificial Intelligence students



### 6-month internship at **AIR FRANCE**

2020

AI / Machine Learning / Computer vision around voice and face analysis issues.

## PROJECTS



### 4-month group project at **CONSERVATOIRE DE BREST**

2019

Development and prototyping of a double reed bassoon with 3D printing technologies. Project management manager in a multicultural team of 5 people. Research Award (delivered by the university).



### 4-month group project at **TEAMSOC21**

2019

Creation of a startup in a European context. Dental healthcare with 3D printings methods. Team of 3 European people.



### 4-month group project at **BRITTANY FERRIES**

2018

Creation of an application to give information to ferry passengers about cultural sites. Responsible for the business model, the communication and the ethical aspect of our product. In a multicultural team of 8 people.



### 4-month group project at **IMT ATLANTIQUE - DEVELOPMENT PROJECT**

2018

Renovation of two broken 3D printers (hardware and software). Creation of an autocalibration method.



### 4-month group project at **IMT ATLANTIQUE - SUSTAINABLE DEVELOPMENT PROJECT**

2018

Creation of a vegetable garden on the Brest campus. "Action of the year" award, IMT Atlantique, Brest campus (delivered by the university).



### 2-month group project at **IMT ATLANTIQUE - ROBOTICS PROJECT**

2017

Creation of a robot driven with an Android application by Bluetooth, which communicates with the external environment by RFID. Equipment set-up and IT development, in a team of 9 people. Manager of the hardware-software coordination.

## EDUCATION



### PhD

*École Nationale des Ponts et Chaussées*

AI / Machine Learning / Deep Learning / Dynamic Data  
Class-Incremental Learning without Memory.

2020-Current



### Master of Science in Computer Science (specialization Machine Learning) 2019-2020

*Georgia Institute of Technology*

Master of Science in Computer science, specialization Machine Learning. GPA: 4.0/4.0  
Fall2019 : CS7641 Machine Learning, CS7644 Machine Learning for Robotics, CS6476 Computer Vision, CS6515 Introduction to Graduate Algorithm.  
Fall2020 : CSE6242 Data and Visual Analytics, CS6999 Master's Project option (ConvLSTM)  
Inducted in the Honor Society



### Master of Engineering in Information Technology, Télécom Bretagne

2017-2019

*IMT Atlantique*

General Engineering Program (Télécom Bretagne degree), in IT. GPA: 3.53/4.0  
Admission through the national competitive examination for admission to the French "Grandes Écoles".



### Three-year undergraduate intensive course in mathematics and physics 2014-2017

*Lycée Malherbe, Caen*

2014 – 2015 : MPSI (First year), indicative GPA: 3.56/4.0  
2015 – 2017 : MP in a selective "Starred class"(top third) (Admitted to Centrale, Mines- Ponts and CCP), indicative GPA: 3.89/4.0

## SKILLS



Native Speaker  
Professional Proficiency  
Conversational level  
Basic level  
Basic level

Languages:



Python  
LaTeX



MySQL  
Bash



C++  
MATLAB

Frameworks:



PyTorch  
pandas



TensorFlow  
scikit-learn



NumPy  
...

## INTERESTS



### Co-founder at ICARE

2021

Development of a platform to facilitate investment in corporate social responsibility.



### Board Member, responsible for the TVonIP project at RESEL

2017-2019

Maintenance of the campuses' internet service provider (ResEI), which also provides other services (TV on IP, FTP indexer, mailing lists for the clubs/associations of the school, websites, etc.). Over 800 subscribers at the beginning of the school year in 2018.



### President at MARCHING BAND OF THE BREST CAMPUS

2017-2019

Recreated after a break of a year (officialization, organization, finding funding, repairing existing instruments).