Etienne Meunier

https://github.com/Etienne-Meunier/

Education :

Jan. 2019 **Sept. 2019**	**Master of Science at Boston University** *Concentration in Computer Information Systems, sub concentration in Data Analytics - 3.96 GPA*
Sept. 2014 **Dec. 2018**	**Diplôme d'ingénieur (equivalent to MEng) at ECE Graduate School of Engineering in Paris** *Concentration in Computer Science - Top 5% overall ranking*

Publications, Posters and Presentations :

Poster, MLCB 2019
Interpreting deep learning models in genomics using genetic algorithm. Meunier E., Novakovsky G. & Mostafavi S.

Presentation, ImmGen Consortium 2019 - Harvard University
AI-TAC and DNA sequence generation. Maslova S. & Meunier E.

Poster, Official Opening of the New Met College Building 2019
A Simple Computational Approach to Predict Long Term Hourly Electric Consumption. Meunier E., Moreau P. & Pinsky E.

Paper Submitted for Initial Review at Expert Systems with Applications. 2019.
A Simple Computational Approach to Predict Long Term Hourly Electric Consumption. Meunier E., Moreau P. & Pinsky E.

Practical and professional experience :

Sept. 2019 **Present**	**Research assistant, University of British Columbia, Mostafavi Lab - Canada** *Research at the Mostafavi lab focuses on developing computational and statistical approaches for integrating and interpreting diverse types of genomics data.* • Used Genetic Algorithm to generate DNA sequences conditioned by the activation of a Convolutional Neural Network.
Sept. 2018 **Present**	**Freelance IT researcher, Centre de Ressources et d'Appui sur le Risque Requin - La Reunion** *The CRA is an organization created by the French Government to lead research on innovative solutions to reduce the risk of shark attacks on La Reunion Island (Indian Ocean).* • Leading the development of shark detection algorithm using a deep learning approach • Redaction of a report to evaluate the performance of the algorithm • Presentation of the results in front of the scientific board
Dec. 2018 **Sept. 2019**	**Freelance IT consultant, Seelk - France** *Seelk is a company that uses data analytics to help companies to develop their sales on the Internet.* • Developed analytical tools to give insights to companies on how web markets are building rankings and evaluate the impact of business decisions.
May. 2018 **Aug. 2018**	**Research Intern, Centre de Ressources et d'Appui sur le Risque Requin - La Reunion** Supervisor : Eric Chateauminois, COO • Reduced by 10x the amount of videos to watch for biologists by developing by myself a motion detection algorithm that works on underwater videos using several tracking techniques.

June. 2017 **Aug. 2017**	**Data Engineer Intern, Datamaran - England** Supervisor : Alberto Pacheco, Data Engineer *Datamaran is a London-based business intelligence provider that uses data analysis and IA to help businesses to monitor emerging regulatory and reputational risks.* • Integrated 10k+ financial reports into the database, by developing a process that extracts, preprocesses and stores data automatically from selected web sources. • Started a research project aimed to use machine learning techniques to extract opinions on companies from tweets.
April. 2016 **May. 2016**	**Internship, Zodiac Aerospace - France** Supervisor: David Vicart, Production Manager *Zodiac Aerospace designs high-technology equipment and systems for critical aircraft functions and in-flight and on-ground safety.* • Improved by 5x technicians speed to access internal documentation by developing a program that automates research in scanned technical documents using Visual Basic and OCR tools.

Personal Projects :

Aug. 2019 **Present**	**Development of a tool to store and analyze the training of Neural Networks** *Independent research project in order to build a constraint-free tool that allow researchers to store more efficiently their experiments and have an overview of the results.* • Design and development of the tool's functionalities • Work with researchers from external labs to build a common structure • Organize the research of funding and recruitment of students to work on the interface.
Nov. 2016 **Sept. 2018**	**Leader of project Kolibri which offers transportation solutions to independent producers** *Kolibri is a project aimed to offer alternative transportation solutions to french independent producers and use cost evaluation techniques to give them insights on their choice.* • Selected as one of 110 projects to be part of the plan to promote innovative initiatives financed by the city of Paris, and got a formal congratulations letter from Mayor of Paris, Anne Hidalgo. • Finalists of the « Innov' Awards », a contest where students present their project in front of a college of investors. • Worked closely with a pool of producers and partners to come up iteratively with the most efficient solution.

Personal Achievements :

Jan. 2018 **Feb. 2018**	**4L Trophy** *Humanitarian car race between Paris and southern Morocco.* • Bought, repaired and prepared an old Renault R4 for several months for a race in the Sahara desert. • Collaborated with companies to raise money and donated bags of school supplies to Moroccan children
Jan. 2017 **June. 2017**	**Volunteer at "Les Cordées de la réussite"** *"Cordées de la réussite" is a national-wide program aims to promote young people's access to higher education, independently of their socio-cultural background.* • Participated in the organization of workshops to introduce students to higher education programs. • Helped students with their coursework in Mathematics.

<u>Selected Technical Skills :</u> Tensorflow, Keras, Pytorch, Python, OpenCV, C, C++, SQL, MongoDB