

Etienne Meunier

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Education :

Jan. 2019 Sept. 2019	Master of Science, Boston University - United States <i>Concentration in Computer Information Systems - GPA : 3.96/4.</i> <i>Sub-concentration in Data Analytics</i> <ul style="list-style-type: none">• Advanced Machine Learning• Research project comparing Generative Networks and Evolutionary Approaches• Database Management and Optimization
Sept. 2014 Dec. 2018	Diplôme d'ingénieur, ECE Paris - France <i>Concentration in Computer Science - Top 5% overall ranking</i> <ul style="list-style-type: none">• Mathematics, Programming, Electronics, Robotics, Data science• Innovative team projects with verbal presentation in front of a jury
July 2016 Dec. 2016	University of Newcastle - Australia <ul style="list-style-type: none">• Software Engineering, Operating Systems

Practical and professional experience :

Sept. 2019 Present	Visiting Scholar, University of British Columbia, Mostafavi Lab - Canada <i>Research at the Mostafavi lab focuses on developing computational and statistical approaches for integrating and interpreting diverse types of genomics data.</i> <ul style="list-style-type: none">• Using Auto-Encoders to build embeddings of DNA sequences based on a regression target variable.• Developed evolutionary approaches to generate sequences conditioned by the activation of a Convolutional Neural Network.• Worked on projects to apply Prior-Informed Networks for Gene Clustering.
Dec. 2018 Sept. 2019	Freelance IT consultant, Seelk - France <i>Seelk is a company that uses data analytics to help companies to develop their sales on the Internet.</i> <ul style="list-style-type: none">• 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	Researcher Intern, Centre de Ressources et d'Appui sur le Risque Requin - La Reunion Supervisor : Eric Chateauminois, COO <i>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).</i> <u>During Internship :</u> <ul style="list-style-type: none">• Reduced by 10x the amount of videos to watch for biologists by developing a motion detection algorithm that works on underwater videos using several tracking techniques. <u>As a consultant (Sept. 2018 - Aug. 2019) :</u> <ul style="list-style-type: none">• 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.

June 2017 Aug. 2017	Data Engineer Intern, Datamaran - England Supervisor : Alberto Pacheco, Data Engineer <i>Datamaran is a London-based business intelligence provider that uses data analysis and IA to help businesses to monitor emerging regulatory and reputational risks.</i> <ul style="list-style-type: none"> 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 <i>Zodiac Aerospace designs high-technology equipment and systems for critical aircraft functions and in-flight and on-ground safety.</i> <ul style="list-style-type: none"> Improved by 5x technicians speed to access internal documentation by developing a program that automates research in scanned technical documents using Visual Basic.

Personal Projects :

Aug. 2019 Present	Development of a tool to store and analyze the training of Neural Networks <i>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.</i> <ul style="list-style-type: none"> Design and development of the tool's functionalities with researchers from external labs. 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 <i>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.</i> <ul style="list-style-type: none"> Selected as one of 110 projects to be part of the plan to promote innovative initiatives financed by the city of Paris.

Personal Achievements :

Jan. 2018 Feb. 2018	4L Trophy <i>Humanitarian car race between Paris and southern Morocco.</i> <ul style="list-style-type: none"> 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" <i>"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.</i> <ul style="list-style-type: none"> Participated in the organization of workshops to introduce students to higher education programs. Helped students with their coursework in Mathematics.

Publications, Posters and Presentations :

Poster, Machine Learning in Computational Biology (MLCB) 2019 - Vancouver, Canada
Interpreting deep learning models in genomics using genetic algorithm. Meunier E., Novakovsky G. & Mostafavi S

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

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

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

Selected Technical Skills : Python (Pytorch, Tensorflow, Keras, OpenCV), C, C++, SQL, NoSQL, Matlab, R.