Clément Verrier

Curriculum Vitæ

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Education

2019-   **PhD Student in Applied Mathematics and Signal Processing**, Aix-Marseille Université, I2M, Wavelet-based multi-dimensional characterization of brain networks in language tasks.
Supervisors: Bruno Torrésani (I2M) and Christian Bénar (INS), Marseille

2018-2019   **Master's degree in Applied Mathematics and Statistic** - **Data Science**, *with honors*, Aix-Marseille Université, Marseille.
Signal processing, machine learning and theory of machine learning, deep learning, optimization

2017–2018   **Master's degree (1st year) in Mathematics and applications**, *with honors*, Aix-Marseille Université, Marseille.
Specialized in applied mathematics and mathematical modelisation

2015–2017   **Bachelor's degree in Mathematics**, *with honors*, Aix-Marseille University, Marseille.
Pure Mathematics

2014–2015   **Classes Préparatoires aux Grandes Écoles**, *Lycée Thiers*, Marseille, *MPSI*.
Mathematics, physics, computer science

2014   **High School diploma in Science**, *with honors*, Lycée du Sacré Cœur, Aix-en-Provence.
Mathematics specialization

Experience

June 2019   **Wavelets and Beyond** - **A celebration for Alexandre Grossmann and Yves Meyer**, *Institut de Mathématiques d'Orsay*, Orsay.
Conferences about wavelets theory and its applications

April-July 2019   **Master Internship** - **Wavelets on surfaces and electromagnetic neuroimaging**, *Institut de Mathématiques de Marseille*, Marseille.
Development of a method which constructs wavelet bases on surfaces, as part of the EEG/MEG inverse problem. Supervisor : B. Torrésani (I2M)

June-August 2018   **Machine Learning Intern**, *Acpqualife (HPS)*, Aix-en-Provence.
Applied machine learning techniques to fraud detection, mainly with deep learning models such as autoencoders to perform anomaly detection

2016   **Study of a Mathematics topic**, *Aix-Marseille University*, Marseille.
Wrote a report on some properties of the Riemann zeta function in collaboration with a classmate during second year of bachelor's degree, with a presentation to a jury

Since 2015	**Tutoring in Mathematics**. Tutoring for high school and middle school students. Support sessions given to bachelor's degree (1st year) students in 2018

Computer science skills

Advanced	R, Python, LaTeX, TensorFlow, Keras, Mac OS
Intermediate	C, Swift, Linux, Windows
Beginner	Matlab

Languages

French	Native language
English	Fluent
Spanish	School level