

# Clément Lalanne

Computer science student

École Normale Supérieure - Paris,  
France

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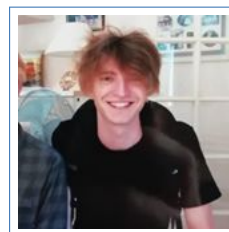
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23 years old

French



## Current situation

2019–2020 **Voluntary Complementary Formation in Mathematics**, *École normale supérieure*, Paris, France.

## Curriculum

2018–2019 **Master's degree student, MVA**, *École normale supérieure Paris-Saclay*, Paris, France, Graduated with Highest Honors.

<http://math.ens-paris-saclay.fr/version-francaise/formations/master-mva/>

2017–2018 **Master's degree student in Computer Science**, *École normale supérieure*, Paris, France, [www.ens.fr](http://www.ens.fr).

2016–2017 **Bachelor's degree, Computer Science**, *École normale supérieure*, Paris, France, [www.ens.fr](http://www.ens.fr).

2015–2016 **Preparatory courses for competitive entrance examination 'Classes Préparatoires aux Grandes Ecoles'**, *mathematics and physics*, Louis-Le-Grand High School MP\*3, Paris, France

2013–2015 **Preparatory courses for competitive entrance examination 'Classes Préparatoires aux Grandes Ecoles'**, *mathematics and physics*, Louis Barthou High School, Pau, France

2010–2013 **General Baccalaureate, major in science**, *Louis Barthou High School*, Pau, France.

## Internships

Spring-Summer 2019 **Nystagmus waveform extraction using convolutional dictionary learning with de-trending**, Supervised by Nicolas Vayatis, CMLA COGNACG, Paris, France

Spring-Summer 2018 **Storage-optimal continuous optimization**, Supervised by Volkan Cevher, EPFL Lions, Lausanne, Switzerland

Summer 2017 **De-anonymization and privacy : Study of a random graph model**, Supervised by Florian Simatos, ISAE Supaero, Toulouse, France

## Achievements

2016 **Passed École normale supérieure entrance examination, ranked 15<sup>th</sup>.**

2016 **Passed École Polytechnique entrance examination, ranked 76<sup>th</sup>**, [www.polytechnique.edu](http://www.polytechnique.edu).

## Useful Skills

Languages **Python, OCaml, L<sup>A</sup>T<sub>E</sub>X.**

Tools **Git.**

## Reference

Tutor **Professor Francis Bach.** Researcher at INRIA Paris and leader of the SIERRA project-team within the Computer Science department of École normale supérieure, (*Francis Bach's homepage*).

## Other activities

Sports **Running, Canyoning.**

Music **Music theory, Guitar, Composition, Band experience.**

Video Games **Experience playing as a team, League of Legends, ARK Survival Evolved.**

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## Teaching Units

### 2019-2020

- Math **Statistics**, *S. Gaïffas*.
- Math **Stochastic Processes**, *G. Giacomini*.
- Math **Complex Analysis**, *N. Bergeron*.
- Math **Differential Geometry**, *O. Biquard*.
- Math **Functional Analysis**, *I. Gallagher*.
- Math **Optimal Transport and Applications**, *F. Bolley*.

### 2018-2019

- App M **Large Scale Distributed Optimization & Computing**, *J.C. Pasquet, E. Chouzenoux*.
- App M **Inverse Problems and Imagery**, *J. Garnier*.
- App M **Kernel Methods for Machine Learning**, *J.P. Vert, J. Mairal*.
- App M **Learning with Deep Neural Networks**, *S. Mallat*.
- App M **Theoretical Foundation of Deep Learning**, *S. Gerchinovitz, F. Malgouyres, E. Pauwels, N. Thome*.
- App M **Algorithms for Speech and Natural Language Processing**, *E. Dupoux, B. Sagot*.
- App M **Deep Learning**, *V. Lepetit*.
- App M **Object Recognition and Computer Vision**, *J. Ponce*.
- App M **Mathematical Foundation of Data Science**, *G. Peyré*.
- App M **Graphs in Machine Learning**, *M. Valko*.
- App M **Reinforcement Learning**, *A. Lazaric*.
- App M **Probabilistic Graphical Models**, *F. Bach*.

### 2017-2018

- App M **Statistical Learning**, *F. Bach*.
- App M **Convex and Combinatorial Optimization**, *A. D'Aspremont*.
- App M **Introduction to Computer Vision**, *J. Sivic*.
- CS **Robotics**, *J.P. Laumond*.
- CS **Software Engineering**, *D. Baelde*.
- CS **Parallel and reactive programming**, *A. Cohen*.

### 2016-2017

- App M **Information Theory**, *B. Blaszczyzyn*.
- Math **Topology and Differential Calculus**, *L. Charles*.
- Math **Integration and Probabilities**, *R. Cerf*.
- CS **CS by practice**, *D. Naccache*.
- CS **Systems and Networks**, *M. Pouzet*.
- CS **Digital Systems : from circuits to algorithms**, *D. Naccache*.
- CS **Formal Languages, Calculability and Complexity**, *D. Vergnaud*.
- CS **Programming languages and compilation**, *J.C. Filliâtre*.
- CS **Algorithmics and Programming**, *A. Bouillard*.

### 2013-2016

- Math **General formation equivalent to two years of bachelor's degree**.
- CS **General formation equivalent to two years of bachelor's degree**.
- Ph **General formation equivalent to two years of bachelor's degree**.