Clément Lalanne

Computer science student
École Normale Supérieure - Paris, France

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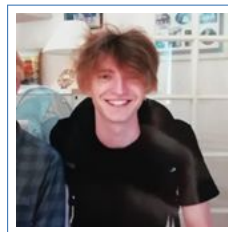✆ +33 7 50 33 41 50
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23 years old
French

Current situation

2019–2020 **Volountary 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.

2016–2017 **Bachelor's degree, Computer Science**, *École normale supérieure*, Paris, France, 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 detrending**, *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 15th*.

2016 **Passed École Polytechnique entrance examination**, *ranked 76th*, www.polytechnique.edu.

Useful Skills

Languages **Python, OCaml, LaTeX, PyTorch, TensorFlow**.

Tools **Git, Unix Based OS**.

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*.

Teaching Units

2019-2020

Math **Statistics**, *S. Gaïffas.*

Math **Stochastic Processes**, *G. Giacomin.*

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 **Theorical 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. Blaszczyszyn.*

Math **Topology and Diffential 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.**