

Grégoire Mialon

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Research

- 2018 - *Now* **INRIA / École Normale Supérieure (Paris, France)** - PhD student
Member of Sierra team and Thoth team.
Building machine learning models that learn with few data.
Advisors : **Pr. Julien Mairal, Pr. Alexandre d'Aspremont.**
- 2016 (5 months) **Massachusetts Institute of Technology (Boston, USA)** - Research Intern
Nuclear Science and Engineering, Offshore Floating Nuclear Plant group.
Built a fast model for predicting damage resulting from ship collisions
using finite elements and high performance computing.
Tutors : **Pr. Neil Todreas, Pr. Koroush Shirvan.**

Education

- 2017 - 2018 **ENS Paris-Saclay (France)** - Msc. Mathematics, Vision and Learning (MVA)
Statistical Learning Theory, Deep Learning, Natural Language Processing (NLP).
- 2013 - 2017 **École polytechnique (Palaiseau, France)** - Graduate Student
Majored in Theoretical Physics and Economics.
Minored in Business Studies and Entrepreneurship.
- 2010 - 2013 **Lycée du Parc (Lyon, France)** - Preparatory Classes: Bachelor level
PCSI-PC* : courses in Mathematics, Physics to prepare top-level science universities.

Job experience

- 2018 - 2020 **Université Paris-Dauphine (France)** - Teacher (M2 MASH)
Python for Data Science and Machine Learning.
- 2017 - 2018 **eXplain (Paris, France)** - Data Scientist, NLP
eXplain (ex-Liegey Muller Pons) is a company focusing on electoral campaign technology.
The company closely worked for the last two winners of the french presidential elections.
Developed and sold an automated press analysis product (relying on NLP).
Managers : **Pr. Vincent Pons, Arthur Muller (founders).**
- 2016 - 2017 **Lycée Saint-Louis (Paris, France)** - Teaching Assistant in Preparatory Classes
Tutored and tested weekly three students in physics for nationwide examination.
- 2015 (3 months) **Ministry for Foreign Affairs (Paris, France)** - Civil Servant Intern
Drafted notes on terrorism for diplomats and political leaders on a mission.
Tutor : **Emmanuel Cocher.**
- 2013 - 2014 **92ème Régiment d'Infanterie (Clermont-Ferrand, France)** - Officer cadet
Assistant to the platoon leader. Trained young soldiers. Received commando training.

Papers	<ul style="list-style-type: none"> - G. Mialon, A. d'Aspremont and J. Mairal. Screening Data Points for Empirical Risk Minimization via Ellipsoidal Regions and Safe Loss Functions (<i>AISTATS 2020</i>). - A. Bietti*, G. Mialon*, D. Chen and J. Mairal. A Kernel Perspective for Regularizing Deep Neural Networks (<i>ICML 2019</i>).
Past projects	<p>During Msc. MVA :</p> <ul style="list-style-type: none"> - Data Challenge: Predicting cancer from DNA for Stéphane Mallat's Curse of Dimensionality course 2018 (ranked first decile). - Built a Tweet normalizer and a Parser for Emmanuel Dupoux's NLP course. - Primal and dual solvers for the SVM problem for Alexandre d'Aspremont's Convex Optimization course. <p>See GitHub for implementations and course homework. Research work coming soon.</p> <p>During Graduate Level :</p> <ul style="list-style-type: none"> - Data Challenge: RAMP Drug Test Challenge 2017 (ranked first decile). - Data Challenge: AXA Data Challenge 2016 (ranked first quartile).
Awards and Fellowships	<p>EDF Énergies nouvelles Fellowship, 2016 - for pursuing research at MIT.</p> <p>Outstanding Investment, 2016 - École polytechnique, for organizing rowing tournaments and wine-tasting events, and involvement in X-Microfinance.</p>
Languages and Skills	<p>French (mother tongue), English (TOEIC : 965/990), German (advanced).</p> <p>Python (advanced), Rowing (involved in student contests).</p>