# Rémi Le Priol

*PhD Candidate*

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🖥 https://remilepriol.github.io/
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## Research Experience

**2017–Present**   **Ph.D. Candidate in Computer Science**, *Mila*, Université de Montréal, with Simon Lacoste-Julien and Yoshua Bengio.
Mila is Montreal's main institute focusing on Artificial Intelligence. I have been doing research in optimization, learning theory and causality. See Google Scholar for a full list of publications.

**Summer 2019**   **Invariance, Causality and Domain Adaptation**, *Facebook Artificial Intelligence Research*, New York, with Léon Bottou.
Part 1 : looking for an unsupervised analog of the Invariant Risk Minimization principle.
Part 2 : investigating adaptive capacity control via local regularization in the context of importance sampling for domain adaptation.

**Summer 2016**   **Distributed Genome Sequencing**, *New York Genome Center*, with Toby Bloom and Yanlei Diao..
Analysis of the randomness in the first step of the sequencing pipeline, on the way to distributed parallelism.

## Education

**2016–2017**   **M.Sc. with honors in Maths and Machine Learning**, *ENS Cachan*.
M2 Mathematiques, Vision, Apprentissage (MVA) is France's top master for research in computer vision and machine learning. Focused on convex optimization, graphical models, kernel methods, bandits, sparsity and differential geometry for image processing

**2013–2017**   **Engineering degree and M1 in Applied Maths**, *École polytechnique*.
Focused on Physics (Quantum, Relativity, Statistical), Mathematics both pure (Complex Analysis, Measure theory, Galois theory) and applied (probabilities, statistics, signal processing, learning theory), and Computer Science (algorithmics, complexity theory, randomization, data science).

**2011–2013**   **Preparatory Class**, *Lycée Hoche*, Versailles.
Two-year intensive programme in Mathematics, Physics and Informatics (MPI) in preparation for competitive exams to the French Grandes Écoles. National exam resuts: ranked 26th at ENS and 57th at Polytechnique.

**2011**   **Baccalauréat in Science with highest honors**, *Lycée Rabelais*, Meudon.

## Other Experiences

**2021**   **Climate Fresk Facilitator**.
Climate Fresk taps on collective intelligence to educate people to climate change. Facilitation of workshops for both companies and the civil society.

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| 2021 | **Acroyoga Teacher**, *Colibris Acroyoga*. |
| | Teaching Acroyoga – acrobatics with a yoga culture – in Festivals and workshops. |
| 2021 | **Academic Mentor**, *Mila*. |
| | Provided weekly academic supervision to two professional Master students doing their end-of-study internship in the machine learning lab of a large Canadian insurance company. |
| Fall 2018 & Fall 2019 | **Head Teaching Assistant**, *Université de Montréal*, class Fundamentals of Machine Learning, taught by Ioannis Mitliagkas and Guillaume Rabusseau. |
| | Teaching machine learning code to classes of $\sim 20$ students. Managing a team of $12$ teaching assistants to create contents for all code classes, and to create an automated code exam, for this class taken by $\sim 250$ students. |
| 2018 | **Elected Lab Representative**, *Mila*. |
| | Represent student's interests within Mila, with a special focus on mental health support. |
| Summer 2015 | **Programmer**, *Crédit Agricole CIB – Nonlinear Trading Desk*, Tokyo. |
| | Developed a software to simulate exotic product's price evolution against past events, such as 2008's financial crisis, to help traders develop safer strategies. |
| Winter 2014 | **Lieutenant**, *Special Military Service Regiment*, La Réunion Island. |
| | 1) Supervised the military recruit training of 30 disadvantaged young adults, helping them to get ready for the job market. 2) Consulting missions to shape the future training programs offered by the Regiment. |
| Fall 2013 | **Military Training**, *Écoles de Saint-Cyr*, Coëtquidan. |
| | Condensed training to become an officer in the French Ground Forces |

# Languages

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| Programming | Python scientific stack, Pytorch, HTML, CSS, Javascript, git, LaTeX |
| Natural | French (native speaker), English (fluent), Spanish (puedo sobrevivir) |