Quentin **Bertrand**

PH.D STUDENT

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Education

INRIA Saclay
Saclay, France

PH.D STUDENT — *Oct. 2018 - Sept. 2021*

- I am a second-year Ph.D Student in machine learning, statistics and optimization, under the supervision of Joseph Salmon and Alxandre Gramfort (core scikit-learn contributor). I am currently working on optimization solvers for high dimensional linear inverse problems, applied to neuroimaging.
- See our latest NeurIPS2019 paper on concomitant estimation through smoothed nuclear norm: `https://export.arxiv.org/abs/1902.02509` + open python code: `https://github.com/QB3/CLaR`.

École Normale Supérieure
Cachan, France

MASTER OF SCIENCE IN MATHEMATICS VISION AND MACHINE LEARNING — *Sept. 2017 - Aug. 2018*

- Final-year student in Machine Learning at École Normale Supérieure, leading research institute in France

École polytechnique
Paris, France

BACHELOR AND MASTER OF SCIENCE IN ENGINEERING — *Sept. 2014 - Jun. 2017*

- Majoring in Mathematics, Applied Mathematics and Computer Science

Experience

Stanford Research Institute (SRI International)
Menlo Park, United States

INTERNSHIP - MACHINE LEARNING RESEARCHER — *Mar. 2017 - Aug. 2017*

- Worked on the DARPA's project Probabilistic Programming for Advanced Machine Learning
- Designed and implemented new algorithms from scratch to compute exact bounds in Graphical Models: `https://arxiv.org/abs/1707.08704`

The Green Data
Paris, France

INTERNSHIP - DATA SCIENTIST — *Jun. 2016 - Aug. 2016*

- Data cleaning, clustering and time series predictions
- Intensive R and SQL

Projects

How to reduce the number of trees in a random forest

THIRD YEAR PROJECT — *Sept. 2016 - Mar. 2017*

- Project aiming at reducing the number of trees in random forests in order to understand better why this classification and regression algorithm works

Machine Learning Competitions

2017 - 2018

- Owkin data science competition aiming at predicting diseases from DNA
- AXA machine learning competition aiming at forecasting time series of calls in AXA call centers

Skills and Interests

LANGUAGES

French	Native
English	Fluent
German	Basic skills

COMPUTER SCIENCE

Python
R, MATLAB
Git, LaTeX

KEY SKILLS

Optimization
Machine Learning
Deep Learning

INTERESTS

Chess	2200 elo
Swimming	4 hour a week
Science	Interested in all areas