Quentin **Bertrand**

PH.D STUDENT

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I am a currently a second-year Ph.D student in statistics and optimization under the supervision of Joseph Salmon and Alexandre Gramfort (core scikit-learn contributor).

Experience

Inria Saclay
Saclay, France

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

- I work on optimization solvers for high dimensional linear inverse problems, applied to neuroimaging.
- See our latest NeurIPS2019 paper on concomitant estimation through smoothed nuclear norm + open python code.

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

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

- Worked on DARPA's project probabilistic programming for advanced machine learning
- Designed and implemented new algorithms to compute exact bounds in graphical models, see our preprint

Education

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*

- Major in applied mathematics and computer science

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 (supervised by E. Scornet and J. Josse)

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

Convex optimization
Sparsity
High dimension

INTERESTS

Chess	2200 Elo
Swimming	2 hour a week
Science	Interested in all areas