

# Mathieu Barré

STUDENT IN OPTIMIZATION AND MACHINE LEARNING

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## Education

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### École normale supérieure Paris-Saclay

Paris, France

MASTER MATHÉMATIQUES VISION APPRENTISSAGE

Sep. 2017 - Sep. 2018

- followed courses of Optimization, High-Dimensional Probability, Probabilistic Graphical Models, Topological Data Analysis, Digital Imaging, Natural Language Processing, Kernel theory for machine learning, Sequential learning.

### École polytechnique

Paris, France

MASTER OF SCIENCE IN APPLIED MATHEMATICS AND DATA SCIENCE

Sep. 2014 - Aug. 2017

- Majoring in Applied Mathematics and Computer Science

### Lycée International Valbonne

Sophia Antipolis, France

CLASSES PRÉPARATOIRES

Sep. 2011 - Jun. 2014

- Three years intensive training course for French Grandes écoles' competitive exams, specialising in mathematics and physics

## Experience

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### INRIA,

Paris, France

PHD TEAM SIERRA

Sep 2018 - PRESENT

- Convex optimization. Studying new proofs schemes for adaptive optimization algorithms.

### INRIA,

Paris, France

RESEARCH INTERNSHIP IN TEAM SIERRA

Apr. 2018 - Sept. 2018

- Exploit new compressed sensing quantities to derive efficient regularization of dictionary learning.

### SRI International,

Menlo Park CA, USA

RESEARCH INTERNSHIP IN COMPUTER SCIENCE LABORATORY

Apr. 2017 - Aug. 2017

- Research in applying machine learning techniques for the detection of advanced persistence threat in computer system.
- Integrate detection tool to SPADE, a software developed in SRI International.

### ULVAC Inc,

Chigasaki, Japan

INTERNSHIP - RESEARCH ASSISTANT IN R&D DIVISION

Jun. 2016 - Aug. 2016

- In charge of numerical computation for the ULVAC's SMD-Series project.
- Investigated scientific papers about scattering and sputtering related to ULVAC's SMD-Series project.

## Skills

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### LANGUAGES

**French** Native  
**English** Proficient  
**Japanese & German** Basic knowledges

### COMPUTER SCIENCE

**Java, C++**  
**Julia, Python, R, Matlab**  
**Unix, LaTeX**