

# Pierre Osselin

Looking for a 4/6-month research internship in Machine Learning from April 2020

## CONTACT

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## COURSEWORK

### GRADUATE

Reinforcement Learning • NLP •  
Computer Vision • Optimal Transport •  
Deep Learning • Statistical Learning •  
Audio Signal processing •  
Advanced Simulation Methods •  
Bayes Methods • Graphical Models •  
Data Science for Development •  
Networks • Combinatorics •  
SDEs • Approximation Theory •  
**Dissertation :** Modelling and analysis of  
social network data from rank preferences.

### UNDERGRADUATE

Machine Learning • Dynamic Systems •  
Convex/Discrete Optimization •  
Software Development • Cryptology •  
Quantum & Statistical Physics • Waves •  
Heat transfer • Fluid/Solid Mechanics •  
Analysis • Company Creation •  
Management • Finance

## SKILLS

### COMPUTER SCIENCE

Git • Windows • Linux

**Experienced :**

Python • TensorFlow • Latex

**Intermediate :**

Haskell • R • C++

### LANGUAGE

French • English (IELTS 8)

## LINKS

LinkedIn:// pierre-osselin-85176412b

GitHub:// PierreOsselin

Twitter:// POsselin

Website:// PierreOsselin

## INTERESTS

**Associations :**

VIA Centrale Réseaux • Electronic Club

**Sports :**

Rock Climbing • Running •

Mountain Biking

**Leisure :**

Reading (Science Fiction, Psychology and  
Economics) • Travelling

## EDUCATION

### ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY | MSc MVA

Research Master in Mathematics, Vision and Learning.

Oct 2019 - March 2020 | Cachan, France

### UNIVERSITY OF OXFORD | MSc IN MATHEMATICAL SCIENCES

Education in Mathematics and Statistics, double degree with ECP.

**Rank :** 2nd of 70 students (MSc) || 7th of 175 students (MSc + MMath)

**Grade :** 83%

Oct 2018 - June 2019 | Oxford, UK

### ÉCOLE CENTRALE PARIS | MSc IN ENGINEERING

Multidisciplinary top Engineering school | **GPA :** 3.9

Sept 2016 - June 2019 | Gif-sur-Yvette, France

### UNIVERSITÉ PARIS-SUD | BSc IN PURE AND APPLIED MATHS

Degree in addition to École Centrale Paris | **Grade :** 15.1/20

Sept 2016 - July 2017 | Orsay, France

### LYCÉE JANSON DE SAILLY | MPSI-MP\*

Intensive scientific preparation for the highly competitive entrance exams to  
the French Grandes Écoles. | **Option :** Computer Science | **GPA :** 4.0

Sept 2014 - July 2016 | Paris, France

## EXPERIENCE

### CNRS | DEEP LEARNING RESEARCHER

July 2019 – Sept 2019 | Paris, France

- Summer internship in the Versailles Laboratory of Mathematics.
- Research subject on Optimization in Deep Learning.
- Organized a TensorFlow workshop for the lab.

### NOVADISCOVERY | SCIENTIFIC PROGRAMMER

July 2018 – Sept 2018 | Lyon, France

- Summer internship in a SME specialized in biotechnology.
- Research Subject in Biological Model Reduction through Network Analysis:  
Development of algorithms in Haskell that automatically reduce biological  
models through sensitivity analysis, parameter identifiability and graph  
reduction.

### MY JOB GLASSES | MACHINE LEARNING RESEARCHER

Sept 2017 – July 2018 | Paris, France

- Development of content-based and collaborative-filtering algorithms in Python  
to perform profile recommendations in a team of four Data Scientists as part of  
a one-year Engineering school project.

### SAFRAN | PRODUCTION OPERATOR

June 2017 – July 2017 | Évry, France

- Workflow manager in a production unit.

### ACCOR HOTEL | SOFTWARE DEVELOPER

Sept 2016 – June 2017 | Paris, France

- Design of algorithms for the selection of comparable hotels in order to measure  
the impact of promotions, and incorporation in a software written in Python.