

MORGANE GOIBERT



Researcher in Deep Learning

Criteo AI Lab – Paris – Internship (end of study)

Research internship in Deep Learning.

* Study of Adversarial Robustness for Neural Networks (Learning theory, probabilities, optimal transportation, graph theory).
* Creating a new defense method:

- Python and Pytorch implementation

- Research article submitted to NeurIPS 2019

* Adversary detection method based on algebraic topology.

Birth date: 26/01/1996 (23 years old)

Houilles, France

[morgane.goibert@gmail.com](mailto:morgane.goibert@gmail.com)

[LinkedIn](http://www.linkedin.com/in/morgane-goibert-6a20ab106) Profile

[Twitter account](https://twitter.com/MGoibert)

[Github page](https://mgoibert.github.io/)

* French : native
* English : fluent (TOEIC 980, 3 months in UK)
* Spanish : advanced (6 months in Spain)
* Russian : notions
* Probability, Stochastic processes
* Machine Learning and Deep Learning
* Statistics
* Data Science
* Strategy

Jan 2019 July 2019

Apr 2018 Sept 2018

June 2016 July 2016

Researcher in Mathematics

Université Paris 1 Panthéon-Sorbonne – Lab SAMM – Internship

Deepening of achievements in stochastic processes (Lévy processes), numerical simulations in Python.

Mathematics Examiner

Lycée Janson-de-Sailly - Paris

Preparation/delivery of oral tests in Mathematics for undergraduate students preparing nationwide exams to Grande Ecoles, reporting to teachers in charge.

Sept 2016 June 2017

Researcher in Applied Mathematics

University of Barcelona – Complexity Lab Barcelona – Internship

Research and modelling internship: networks and graph theory

* Modelling in C and R
* Algorithmic optimization and Big Data
* Epidemiological approach and diffusions of opinions to create a model:

- Adapting and improving traditional compartmental model (SIRS) for the studied case

- Application to the radicalization process and terrorists’ networks in Europe

June 2017 Sept 2017

Data Science Manager

SAP UK – Global Channel & General Business - Internship

Redesign of SAP Discount Policy to fit the market prices while minimizing revenue impact.

* Identification of the variables of interest (geography, etc.) and creation of a new discount model by regression Machine Learning algorithms.
* Analysis of the new discount model impacts, its ease of implementation and its legal compliance.
* Creation of a Machine Learning tool (R Shiny) for managers

EXPERTISE

LANGUAGES

WORK EXPERIENCE

Dedicated, self-motivated student in Mathmatics applied to Machine Learning. Looking for a PhD thesis opportunity (academic or CIFRE).

CONTACTS



* Sport: Handball (10 years, regional level), Swimming, Biking
* Fantasy literature: *Lord of the Ring*, *Kushiel* series, etc.
* Video games: Zelda, World of Warcraft
* Travels: Europe, Africa (especially Botswana)
* Gastronomy: several cooking lessons

HOBBIES

* R (caret, etc.)
* Python (scikit-learn, Pytorch, TensorFlow, CUDA)
* C/C++
* Matlab
* SQL, MySQL
* Git / Github
* LaTeX
* Google Suite
* Microsoft Office

EDUCATION – DOUBLE DEGREE STUDENT

Tremplin Association – Tutor and Board Member

Tutoring for underprivileged high-school students: discovering higher education, deepening knowledge in mathematics. I participated in the launch of the tutoring method for students aged 14/15 years old.

Private teacher in Mathematics

Several students with different level: Classe Préparatoire, High-school (last year, first year)

Training with MOOCs

* OpenClasserooms: Several courses in Machine Learning (Python), SQL, C/C++
* Coursera: Machine Learning by Stanford, Andrew Ng (Matlab)
* Developpers Google: Machine Learning (Python, TensorFlow)
* FUN-Mooc: Strategic matters (CNAM, École Militaire)

SKILLS

Lycée Les Pierres Vives

Baccalauréat with Major in Mathematics – Highest Honors

ENSAE ParisTech

Engineering diploma – Data Science, Statistics, Economics

Last year student (M2)

EXTRA-PROFESSIONAL ACTIVITIES

2013

2013 - 2015

2017 - 2019

2015 - 2019

Lycée Janson-de-Sailly

Preparatory courses for Grandes Écoles (Business Schools) - Paris

ESSEC Business School

MSc Management Grande École – Negotiation and Governance track

Last year student (M2)