MORGANE GOIBERT

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

CONTACTS

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

Houilles, France

morgane.goibert@gmail.com
LinkedIn Profile
Twitter account
Github page

LANGUAGES

o French : native
o English : fluent (TOEIC 980, 3 months in UK)
o Spanish : advanced (6 months in Spain)
o Russian : notions

EXPERTISE

o Probability, Stochastic processes
o Machine Learning and Deep Learning
o Statistics
o Data Science
o Strategy

WORK EXPERIENCE

Researcher in Deep Learning

Jan 2019 – July 2019

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

Research internship in Deep Learning.
o Study of Adversarial Robustness for Neural Networks (Learning theory, probabilities, optimal transportation, graph theory).
o Creating a new defense method:
  - Python and Pytorch implementation
  - Research article submitted to NeurIPS 2019
o Adversary detection method based on algebraic topology.

Researcher in Applied Mathematics

Apr 2018 – Sept 2018

University of Barcelona – Complexity Lab Barcelona – Internship

Research and modelling internship: networks and graph theory
o Modelling in C and R
o Algorithmic optimization and Big Data
o 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

Data Science Manager

June 2017 – Sept 2017

SAP UK – Global Channel & General Business - Internship

Redesign of SAP Discount Policy to fit the market prices while minimizing revenue impact.
o Identification of the variables of interest (geography, etc.) and creation of a new discount model by regression Machine Learning algorithms.
o Analysis of the new discount model impacts, its ease of implementation and its legal compliance.
o Creation of a Machine Learning tool (R Shiny) for managers

Mathematics Examiner

Sept 2016 – June 2017

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.

Researcher in Mathematics

June 2016 – July 2016

Université Paris 1 Panthéon-Sorbonne – Lab SAMM – Internship

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

EDUCATION – DOUBLE DEGREE STUDENT

2017 - 2019

ESSEC Business School
MSc Management Grande École – Negotiation and Governance track

Last year student (M2)

2015 - 2019

ENSAE ParisTech
Engineering diploma – Data Science, Statistics, Economics

Last year student (M2)

2013 - 2015

Lycée Janson-de-Sailly
Preparatory courses for Grandes Écoles (Business Schools) - Paris

2013

Lycée Les Pierres Vives
Baccalauréat with Major in Mathematics – Highest Honors

EXTRA-PROFESSIONAL ACTIVITIES

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)