

# I come alive at the intersection of education, product design and machine learning.

## Education.

### MSc, Machine Learning

University College London, UK  
2019 - 2020

- Taught by researchers from DeepMind, Facebook AI and UCL Computer Science
- Dissertation on adversarial bias mitigation in web search

### BSc, Applied Mathematics

University of Nice, France  
2016 - 2019

- Highest scoring student in the Faculty of Science
- Innovation award for outstanding contribution to Science and Technology
- Dissertation on statistical coincidence detection of neural spike train patterns

## Relevant courses.

Game Theory I & II,  
Differential Calculus,  
Supervised Learning,  
Deep Learning,  
Graphical Models,  
Computer Vision,  
Reinforcement Learning,  
Natural Language Processing,  
Affective Computing,  
Bioinformatics

## Languages.

French / native  
English / bilingual  
Portuguese / read and write  
Spanish / read and write

## Experience.

**Knap** / Research Intern, Machine Learning  
Monaco / June - August 2018

Designed prediction models for real-time fraud detection (Bayesian Inference, Markov decision processes, Monte Carlo methods).

**Demola** / Lead Designer

Salt Lake City, USA & Nice, France / January - June 2018

Led a team of six in building an interactive learning system for museum visitors around the world. We earned a scholarship to attend an entrepreneurship programme in Lassonde Studios, a hub for young innovators at the University of Utah.

**Amadeus IT Group** / Intern, Data Science

Sophia Antipolis, France / July - August 2015

Worked in the Travel Intelligence team. Built a framework to monitor the integrity of the 10,000+ data files received daily by the company. Familiarised with Elasticsearch, Logstash, Kibana and Apache Kafka.

## Relevant technical skills.

**Python** // ODE solving / Bayesian Inference on graphs (JTA, HMMs) / Kernel Methods / Image tracking, Condensation, Homographies / Supervised Learning algorithms (k-NN, Naive Bayes, Least Squares, Trees)

**Pytorch** // Extensive use in Deep Learning (CNNs, RNNs)

**MatLab** // Simulation of various stochastic processes (random walk, Brownian motion, Poisson process, reproduction models, birth-and-death)

**R** // Statistical computing (Monte Carlo Methods, PCA, maximum likelihood estimations, clustering algorithms)

**C++** // Implementation of a realistic 8 ball pool game / Modelling of Brownian motion of gas in a box

**Java** // Design of a modern version of Snake

**Julia** // Implementation and training of various Deep Learning models (CNNs, RNNs, VAEs, MLPs)