

**EDUCATION**

**ENSTA ParisTech - *Institut Polytechnique de Paris***

First-year student in Mathematical Engineering (current GPA 3.4), September 2018

**Preparatory Class at Lycée Joffre, Montpellier in Mathematics, Physics and Chemistry**

3-year preparation for competitive exams, both written and oral (final rank 333<sup>rd</sup> out of 3,500+ candidates), September 2015

**Université de Montpellier III**

Attended Film school, achieved both creating and studying cinema, September 2014

**SKILLS**

**Computer :** Python, MATLAB, C, LaTeX, Bash, Arduino, MS Office suite

**Language :** Fluent in English, Conversational Italian, Native French

**DESIGN PROJECTS**

**Report on Options and Derivatives Pricing**, January 2019

Currently writing a detailed report, under the supervision of the Department of Applied Mathematics at ENSTA ParisTech, on the financial mathematics in the area of option pricing, based on autonomous study of writings by John C. Hull and classes by Pr David Lefèvre and Pr Francesco Russo.

**Design of a Robot Wrestler**, December 2018

Teaming up with 4 other students to program and build a robot, designed to participate in a friendly wrestling competition hosted by my school. Assigned roles and debated on a strategy for attack and defence, translated into assembling and coding a miniature robot.

**Creating an Automatised Strategy for an Open Maths Problem**, April 2018

Partnering up with another student to introduce a systemised program to an optimisation problem. Performed under the constraints of a joint use of resources, through GitLab. Shaped a solution harnessing Genetic Algorithms, tailored to the specific parameters.

**Invented a Device to Measure a Fluid's Viscosity**, July 2017

In the context of the competitive exams, I created an automated technique for measuring viscosity. By probing the frequency of a viscous fluid's coiling behaviour when spilling, through laser-activated sensors, I managed to refine the measurement of its cinematic viscosity.

**EXPERIENCE**

**Institut Pasteur**, Paris, August 2018

**Unit of Enteric Bacteria and Pathogens**

- Established the fusion and unification of patient databases
- Assisted in the archiving of samples and computer files

**LEADERSHIP**

**Head of Communications, BOOM ENSTA**, September 2018

- Addressed sponsors, and promotion to students for events held by the organisation

**Private tutor in Mathematics and Physics**, Paris, September 2017

**Directing and Editing of two short films**, Montpellier and Paris, June 2015