Alejandro Saldarriaga-Fuertes

+33669253694; alejandro.saldarriaga-fuertes@polytechnique.edu

EDUCATION

Ecole Polytechnique (Palaiseau)

September 2016 to date

- One of the most preeminent schools of science and engineering
- Working towards an *Ingénieur polytechnicien's* degree, the equivalent to an MSc
- Major in Electrical Engineering
- **Relevant Courses**: Signal Processing, Linear Programming, From the Internet to the IoT, Micro and Nanoelectronic Experimental Design, Algorithm Design and Analysis, Advanced Programming, Massive Data Processing, Optimal Control Theory, Distributions
- **Side Courses**: Continuum mechanics, Fluid mechanics, Relativity and Variational Principles, Advanced Quantum Physics, Statistical Physics, Electromagnetic Waves, Algebra and Galois Theory, Differential Calculus and Complex Analysis, Humanities and Social Science.

Prépa Saint Louis (Paris V)

September 2014 to June 2016

- Leading up to competitive nationwide entrance examinations to the *Grandes Ecoles*
- Studied Mathematics, Physics and Computer Science

Lvcée Sévigné (Paris V)

September 2012 to June 2014

- Participated to Concours Général in Mathematics, Physics and Biology
- Participated to regional *Concours des Géosciences* in biology, ranked 24th

RESEARCH EXPERIENCES

- PSC (Collective Scientific Project) on linguistic accents detection using convolutional neural networks (1 year)
- Conception of a basket optimization algorithm for a startup (6 months)

HONORS

- Baccalauréat (A-levels equivalent) with high-honors
- English speaking section diploma (English History class)

WORK EXPERIENCE

Private Teacher

November 2017 – to date

- Providing help in mathematics two hours a week for students in preparatory schools.

Internship in BNP CIB Global Markets

April 2018 – August 2018

- Carried several little projects handling databases and market data
- Developed a back-test environment for trading algorithms
- Tested an adaptation of an existing mathematical finance model with the back-test environment

Internship in the Air Force

October 2016 – April 2017

- Carried out a 4 months computer project with two others students
- Continued the development of an airplane planning software (ActiX) designed specifically for the unit by older Polytechnique students
- Created a planning software for the staff from scratch(PlanniX)

Military Service

September 2016 - October 2016

SKILLS

<u>Advanced skills</u>: Programming in Visual Basic, Java, C++, HTML5, CSS, JavaScript, Python and CamL

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<u>Languages</u>: French (mother tongue); Spanish (mother tongue); English (fluent) 9 years of practice

EXTRACURRICULAR ACTIVITIES

- Piano since 2006 in a conservatory (Jaques Ibert, Paris XIX): Third cycle Third year. Working towards the CEM (Certificate of Music Studies)
- Poster designer and charged of communication in a cinephile student organization
- Member of a charitable student organization
- Music creation and mixing
- Avid tennis player