# STEVAN Antoine

Data Science Student, Researcher Student in Reinforcement Learning

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## Social Network ———

- in [Professional page](#)
- ⊙ [Computer science projects page](#)

## Languages ———

- 🇫🇷 French - native speaker
- 🇬🇧 English - fluent
- 🇩🇪 German - very good
- 🇯🇵 Japanese - beginner
- 🤟 LSF - beginner

## Hard Skills ———

- 🪟 Linux, Arch, Windows
- </> Python, LaTeX, C, C++, Java, Processing, Assembly, Arduino, CamL, Racket
- ☰ MySQL, PostGreSQL, Redis
- ⚗️ PyTorch, NumPy, Pandas, SciPy, Scikit-Learn
- ☎️ sh, bash, ssh, git
- 🖥️ Jupyter, Google Colab, Computing Cluster, Excel, Gimp, Blender
- ☁️ markdown, css, JavaScript, html

## Soft Skills ———

`Dedicated`  `Intrinsically curious`
`Calm under pressure`  `Versatile`
`Fast-learner`  `Spontaneous`
`Honest`  `Open-minded`

## About me & Objectives

Interested in ML & RL, language and human-machine interactions.
Master of science, $3^{rd}$ year student at ISAE-Supaero, research track.
I would like to continue with a PhD after graduating.
I am looking for an internship in a lab for a period of at least 3 months (5 months prefered), from march 2022.

## Working Experience

Recent experiences.

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**july 2021 – august 2021**

### $2^{nd}$ **year internship** (7 weeks)
SuReLI, ISAE-supaero

Continuation of the previous research topic of my PIR project:

- Further in the disentanglement model & learning technique.

`Full ML pipeline`  `Image processing`  `Imitation RL`
`Autonomy`  `Talking about my work`  `Resilience to failure`

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**january 2021 – july 2021**

### *Innovation & Research Project* (PIR) (5 months)
ISAE-Supaero

First research experience leading to a paper with academic level.
Title: *Applying Disentanglement for Domain Adaptation to RL*.

- Key questions and techniques of disentanglement.
- Short paper submitted to the ISAE-Supaero.

`Image processing`  `Disentanglement`  `Submitting a paper`
`Writing communication`  `Oral presentation`  `Fast learning`

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**november 2020 – april 2021**

### Tutor for students (6 months / part-time)
ISAE-Supaero

- Organized support sessions about basic or deeper notions.
- Helped students to graduate their $2^{nd}$ year.

`Patience`  `Popularization skill`  `Time Management`

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**october 2020 – may 2021**

### Part-time operator (8 months)
ISAE-Supaero, InnovSpace

- Managed ISAE-Supaero's InnovSpace during my free-time.
- Watched the place, the tools and helped users.

`Manual tools`  `Professional management`
`Dedication`  `Autonomy`

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Reinforcement Learning

## Memberships —————

The SuReLI lab

VP of the *Supaero Computer Science Club*

The InnovSpace of Supaero

## Past experiences

**july 2020 – august 2020**

**$1^{st}$ year internship (8 weeks)**

Naval Force 3, La Rochelle, France

Naval Force 3 is a private shipyard (SME) in La Rochelle.

- First experience in a firm.
- Discovered how it is managed and difficulties due to crisis.

[Building nautical objects] [Resin techniques]
[Managing a workshop] [Going out of comfort zone]

**september 2018 – june 2019**

**Research school project (TIPE) (9 months / part-time)**

Georges Clemenceau, Nantes, France

First research experience.

- Optimization of the urban space through simulation.
- Learning-based algorithm to facilitate pedestrian traffic.

[Problem statement] [Evolutionary algorithms]
[Autonomy] [Oral communication]

## Education

### Study

**2019 – 2022**  **ISAE-Supaero**  Toulouse, France

The *Aeronautic & Space Superior Institute* in France.
Currently attending the *Data Science & Decision Making* (SDD) class:

- geometrical, probabilistic and connectionist approaches
- commitee-based ML, Deep Learning and RL.
- stochastic optimization and evolution.

**2017 – 2019**  **Preparatory Class [MPSI, MP, computer science]**  Georges Clemenceau High School, Nantes

French class to prepare for highly selective graduate schools.

**2014 – 2017**  **High school [engineering sciences and computer science]**  Léonce Vieljeux High School, France

Good results in high schools opens the way to preparatory classes after graduation, which are selective classes.

## Diplomas

**2020**  **Bachelor's degree**
*Bachelor science diploma*

**2019**  **TOEFL PBT**
*607/677 (B2)*

**2019**  **Graduate schools entrance examination**
*Successful examination for the highly selective Mines school bank.*

**2017**  **Baccalauréat (bac)**
*Mention: very good*

## Extra-Curricular Activities

Arch       Configuring and building software for my ArchLinux distro.
Website    I document my Arch configuration on my websites.
Projects   Coding games in the SCSC or ML algorithms in my free time for fun.
Epoxy      An artistic pane out of wood and resin to decorate my place.
Computer   6502 $\mu$-computer, on breadboard, with custom games in assembly.
8-bit CPU  A CPU out of logic gates with custom assembly.

**December 3, 2021**                                    **STEVAN Antoine**