



## Antonio Soggia

*Curious, motivated and always available to learn, I like to explore my passions through projects carried out outside the academic framework.*

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Have a driving licence

### Technical skills

#### Programming:

Python:

- Scientific calculus,
- Stochastic calculus,
- Scripting,

R:

- Machine learning,
- Statistics,

C++, PL/SQL, Scilab, LaTeX, Unix.

#### Programs:

Office Suite;  
VsCode, Rstudio, Anaconda;  
PowerAMC, SQL Developer;  
Blender, Adobe Photoshop

### Hobbies

Informatics  
3D printing  
Music (Piano)  
Sports (Calisthenics, soccer, athletics)

### Mother tongues



-  French
-  Italian

### Other languages

-  English (C1)

I'm searching for a 15 months apprenticeship in Machine learning and related fields (available from June)

### Education

- Now  First year in Msc Mathematical Engineering
- 2020  Bsc in Applied Mathematics with high honours
- 2017 Bac S + Scientific diploma, Ventimiglia

### Projects initiated for personal interest

- Python: Development of a blockchain and a cryptocurrency, utilised cryptography librairies;
- PL/SQL: Development and management of a database for an elevator management application used PowerAMC, Excel and Oracle SQL Developer.
- Developed an online internet website.
- Creation of a VPN tunnel between a computer and a server for a remote 3D printer control.
- C++: Edited source code for a 3D printer's firmware

### Projects undertaken in a university setting

Python:

- Wright-Fisher model in genetics and used Markov matrix and martingales;
- Developed a generalized 2 dimension PDE resolution program

R:

- Created PCA, KNN, CHA and K-means algorithmes and explained their work.
- Developed prediction models and compared many algorithms (Neuronal nets, KNN, K-means...) , on banking and telecommunication data tables.

C++: Developed .hh and .cpp files for the creation of a text story.

PL/SQL: Conception et gestion d'une base de données pour une plateforme de jeux vidéos

### Work experiences

2014- | Teaching

Teaches Mathematics, Macro/Microeconomics and Physics to high school and university students.

Taught french language at Ventimiglia primary school.

2018-2019 Interim worker Elit Intérim – Monaco

Cashier (day and night), shelving, caretaker