

Student in Master  
Algorithmique  
Modélisation à  
l'Interface des Sciences

## Personal Informations:

08 Juin 2000

74 avenue du coin du bois  
78120 Rambouillet  
FRANCE

alexis.guigal@laposte.net

 Alexis Guigal

 AlexisGGFR

 GGAlexFR

## Education:

2022 – aujourd'hui :

Master Algorithmique Modélisation à l'Interface des Sciences at l'UFR des Sciences of Versailles

(Language C, Java (JEE), Python( Pytorch ))

-TER : Modelling and Generation of Molecular Cage Construction Guides ( C )

-Ranking method and recommendation : Quadratic Aitken acceleration in the powers algorithm, pagerank ( C )

-Graph algorithm, Game theory, Neural networks...

2019 – 2022 :

Dual degree Biology and Computer Science at l'UFR des Sciences of Versailles

( Computer Science : langage C, Java, Python, SQL, R)

-Algorithms and foundations of data science: clustering project with the PAM method ( C )

-Project: prediction of RNA secondary structure with the Nussinov algorithm( C )

-Object-oriented design and programming, graph algorithm ( algorithms I ) ...

2018:

French HS diploma, Science Major option Computer Science ( HTML, CSS , JS )

## Work Experience :

Juin 2021 – Juillet 2021 :

Internship at l'Institut Pasteur in Paris in the Computational Biology department in the Statistical Genetics team (Research, Creation of programs in C, python (pandas), shell (awk))

Decembre 2014 :

Internship of 9th in optician « Alain Afflelou » in Rambouillet during one week.  
( Organization and preparation of orders, storage of glasses, etc...)

## Languages skill :

French : Native

English (High School + university) : B2 : Comprehension and interpretation of conversation and text in English.

German ( High School ) : A2 : Basic conversation and text comprehension in German

## Technicals skill :

Computer Science :

- Programming language : C, Python, Java, SQL, Javascript, HTML, CSS, R
- Other : Microsoft Office, OpenOffice, Markdown, LaTeX

Biology :

- Mastery of scientific tools such as the optical microscope and interpretation of observation results in electron microscopy, or the use of different glassware while respecting the safety protocol.
- Use of biology software such as RasWin or Biorender for example.
- The basics of the scientific interpretation of graphs and results
- Basics of interpreting and writing scientific protocols.

## Interest :



Cycling



Swimming



Strategy  
games



Team  
games