

PhD student in bio-informatique



Lucas ROUAUD


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23 years old

https://github.com/
FilouPlains

LANGUAGES

 French (native)

 Spanish (scholar)

HOBBIES

Programming
Documents, figures and pictures
formatting

EVENTS

(2018) General competition of
high schools and trades, bio-
technologies

(2019) Third semester done at
UQAC, in Quebec

(2022) School workshop: pre-
sentation of Kaggle project and
a poster on the M1 internship

POSTERS

(novembre 2022) Lucas
ROUAUD, Jade FOGHA,
Alexandre G. DE BREVERN,
Julien DIHARCE. Establishing a
docking protocol to find
relevant ligand poses in order
to target the IL-3/IL-3R α
interaction.

SKILLS



Bio-informatic

- Work and conduct on a project in group
- Use object-oriented programming for projects
- Do machine learning
- Align sequences
- Simulating molecular dynamics
- Dock ligands



Computer science

- Programming with C++, Python, R
- Use vectorial computation methods
- Use Visual Studio Code software as well as Microsoft or Libre office's pack software programs
- Use Git
- Make PDF through LaTeX
- Use HTML and CSS to realize a simple web page

EXPÉRIENCES PROFESSIONNELLES

2023

3 years, fixed-term contracts

- PDH student in bio-informatic / Laboratoire de biochimie théorique DCME at Life Sciences departement / Université Paris Cité Paris (75)

Topic:

- Combining artificial intelligence and virtual reality

Task done:

- Development of Explainable Artificial Intelligence
- Teaching in front of student

2023

6 months, internship

- Trainee in structural bioinformatic / Team UMRBIBIP, CNRS Paris (France)

Task done:

- Working on Hydrophobic Cluster Analysis
- Detection of distant homology based on structure
- Natural Language Processing and word2vec

2022

3 months, internship

- Trainee in structural bioinformatic / Team UMR_S U1134, INSERM Paris (France)

Task done:

- Molecular dynamics simulation
- Molecular docking
- Programming parser in python
- Data analyses with R

2021

2 months, internship

- Trainee in web development / Team UMR_S U1136, INSERM Paris (France)

Task done:

- HTML form
- Data treatment with SQL
- Server side processing with PHP
- Work on the ergonomic of a website

TRAINING

2021 – 2023

- Master degree in bioinformatic
Université Paris Cité in Paris (France)

2020 – 2021

- Bachelor degree in Life Science, major in Biochemistry and Cellular Biology
Institut Sciences et Techniques in Neuville-sur-Oise (France)

2018 – 2020

- DUT in Biological engineering, option biological and biochemical analyses
Institut Universitaire de Technologie in Pontoise (France)

2018

- Baccalaureate in Sciences and Technologies in Laboratory, in biotechnologies
Lycée Violet-le-Duc in Villiers Saint Frédéric (France)