

Contact

Maron, France

equignon

Erwan Quignon

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Soft skills

Autonomy

Adaptability

Multidisciplinary work

Curiosity

Tenacity

Languages

As French - Native

English - C1

As Spanish - Basics

Activities -

Cooking/Baking

Hiking

Genealogy

Reading

Erwan Quignon

PhD - Postdoctoral position

Interests

28 years old

Molecular Biology

Bioinformatic

Data visualisation

Work experience



Master 2 - Internship

March 2023 - July 2023 Biogenosis - Rouen, France

Development of a single-cell analysis pipeline for metagenomic/phylogenetic analysis

- · Benchmarking and tools selection
- · Development of a Nextflow pipeline for NGS analysis

PhD student in molecular biology

October 2018 - August 2022

IBMC - CNRS - Strasbourg University, France

Thesis: "Interaction of Influenza A virus genomic segments with NP nucleoprotein: structural impact and implications for genome packaging" under the supervision of Roland Marquet (UPR9002, CNRS)

- Production in vitro and purification of Influenza A virus RNAs
- · Production of Influenza A virus proteins in bacteria expression system
- Usage of bioinformatics tools (statistics, secondary structure prediction, NGS)
- · Learning of basics of programming in Python, R and LaTeX

(2021) Teaching in biochemistry (Bachelor 2nd year - Practical work)

Practical work supervision

(2022) Teaching in microbiology (Bachelor 3rd year - Seminar and practical work)

- · Seminar preparation
- · Practical work supervision

Master 2 - Internship

January 2018 - June 2018

September 2023 - Present Coursera, Online

- IBMC - CNRS - Strasbourg University, France

Title: "Study of Influenza A virus packaging signals"

MIME (Mutational interference mapping experiment) application on Influenza A virus

Formations

Online courses



· Python/Rust programming languages and machine learning algorithms

Master 2 - Bioinformatic - Complementary skills in Bioinformatics

2022-2023

Rouen Normandie University, France

- · General aspects of bioinformatics
- · Python (data analysis, machine learning) and R (data analysis) languages programmation
- · NGS (genomic, metagenomic) data analysis and proteomic analysis
- · SQL introduction

Master - Micro-organism biology - Virology specialisation

2016-2018

Strasbourg University, France

- · General aspects of microbiology/virology
- · Handling techniques commonly used in scientific research

Bachelor - Life and Environmental Sciences

2013-2016

Lorraine University, Nancy, France

· General aspects of biology and chemistry



Python - Scripts/GUI/ML

F HTML - Basics

Scientific communication

LaTeX - Thesis/Reports

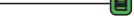
Rust - Simple scripts

R - Statistics

</> Nextflow

Science monitoring

Publications



- · Chemical and Enzymatic Probing of Viral RNAs: From Infancy to Maturity and Beyond, Gilmer O., Quignon E., et al., 2021, Viruses (joint first author)
- Structural impact of the interaction of the influenza A virus nucleoprotein with genomic RNA segments, Quignon E., et al., Viruses