# ROMAIN ROCHEPEAU

*CURRICULUM VITAE*

## ABOUT ME

I am currently pursuing my second year as a Master student in Life Sciences Engineering at EPFL, with a minor in Data Science. Understanding biology in a quantitative way under mathematical and computational aspects is something I am passionate about and which led me to my current studies.

Highly enthusiastic about programming & data science methods such as Machine learning, I am always excited to apply these new methods to biology and to create a bridge between these universes, with a particular interest in digital epidemology as well as immunology.

## LANGUAGES

French : Native speaker
English : C1 level
German : Scholar level
Spanish : Scholar level

### PROGRAMMING LANGUAGES

Python : Proficient
R, HTML, CSS : Intermediate
Ruby, JS, C++ : Basics

## PROJECTS PORTFOLIO :

https://romrchp.github.io/

## CONTACT

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## EDUCATION

**September 2022 - Present** — Master in Life sciences Engineering, Minor in Data Science

**September 2018 - August 2022** — Bachelor in Life Sciences Engineering, EPFL (4.82/6)

**January 2019 - July 2019** — Mise à Niveau (MAN), EPFL

**July 2018** — Graduation of the Baccalauréat Général (18.33/20)

**September 2015 - June 2018** — Highschool years at Lycée Polyvalent Jeanne d'Arc (Gex, France)

## EXPERIENCE

**Sep-Feb 2022 :** **DGRPool** : Project in the Laboratory of Systems Biology and Genetics (Deplancke Lab), supervised by Dr. Bart Deplancke.

**Keywords**: Web-tool, Data curation & Harmonization, Pipeline Automation.

**Sep.2023 - Present :** Tutoring in Maths, Physics & Biology for students at a highschool level.

**Aug.2024 - Present:** Junior Engineer Internship - Technical Logistics, Doctors Without Borders.

## PUBLICATIONS

- Vincent Gardeux, Roel P.J. Bevers, Fabrice P.A. David, Emily Rosschaert, **Romain Rochepeau,** Bart Deplancke (2023) *DGRPool: A web tool leveraging harmonized Drosophila Genetic Reference Panel phenotyping data for the study of complex traits*, https://doi.org/10.7554/eLife.88981.1

## OTHER PROJECTS

- **Cell-segmentation using time-sequence data,** course project in collaboration with the Laboratory of the Physics of Biological Systems, supervised by Vojislav Gligorovski.

  **Keywords :** Deep Learning, U-NET, Prediction of images' masks.

- **Image denoising using an adapted Chambolle Scheme**

  **Keywords:** Mathematical optimization, Forward-backward Algorithm, Duality.

- **Frames of success : Diving into the minds of movie wizards,** course project in Applied Data Analysis.

  **Keywords:** Applied data analysis, Natural language processing, Graph & Network analysis.