# **BERAUD Mélanie**

Data Scientist, PhD Microbiology/Molecular Biology, Senior technician Biotechnology

## **SOFT SKILLS**

People management, Tutoring, Open-minded, Public speaking, Analytical skills, Critical thinking, Adaptability, Enthusiast, Self-learner

## **DATA SKILLS**

# **Programming**

Python, R, VBA for Excel, SQL

### Data Visualization and statistics

plotly, seaborn, dash, streamlit, Excel Statistics with R

## Machine Learning

supervised, unsupervised (sklearn), deep-learning, NLP (tensorflow), hugging face

## Big Data

Spark, Databricks AWS

#### **Environments and OS**

Jupyter Notebooks, docker, Terminal, IDE, Windows, Linux

#### **BIO SKILLS**

Cloning and Mutagenesis - High-throughput cloning, mutagenesis & screening, 'Golden Gate', qPCR, primer design

**Biochemistry** - Protein Expression and Purification, HPLC/UPLC, Mass-spectrometry (ESI, MALDI, SELDI)

**Genomics -** Web servers and platforms, Genome browsing

Microbiology - E.coli, Salmonella, B. subtilis, fungi, environmental strains, communities.

## LANGUAGES

English 🗮 📒

French |

Dutsch =

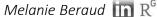
Full Professional Proficiency

Native Proficiency

German |

Limited Working Proficiency

Elementary Proficiency



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## **MOOCs**

BIG (Génomique) (2020) Python (2018) Genomes and Algorithms (2016) Analyse de données multidimensionnelles (2016) Statistics using R (2015)

### **EDUCATION**

#### **Data Science**

Jedha Bootcamp

Paris, France

08/2023 - 01/2024

- Data Visualization
- Machine Learning
- Deployment

Final project: Development of a web application for the detection of human emotion

## PhD Microbiology – Molecular Biology

University Denis Diderot (Paris VII) Paris. France 09/2007 - 09/2010

## **WORK EXPERIENCE**

Sequencing Platform Manager, Seglab, Genoscope, CEA - 05/2021 - 11/2022

**Strain engineer,** *Lipofabrik - 04/2018 - 01/2021* 

**Postdocs,** University of Mons (BE) & MPI Biochemistry (DE) - 04/2011 - 09/2017

- Home-made database: genomic, proteomic,
- Home-made statistical analysis pipeline,

#### **PhD Candidate**

Institut Pasteur 09/2007 - 09/2010

- Home-made application for results analysis.

## **VOLUNTEERING**

**Data4Good,** Data Scientist for 2 projects. - 2024 - ... MeepleClub, Board Game association - 2022 - ... StaPa, Young Researcher Association from Institut

Pasteur - 2008 - 2010

