



# BERAUD Mélanie

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

Melanie Beraud  

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currently in Paris, France 

## 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

IDE, Jupyter Notebooks, docker, Terminal,  
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**  

Full Professional Proficiency

**French** 

Native Proficiency

**German** 

Limited Working Proficiency

**Dutsch** 

Elementary Proficiency

## 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,** Seqlab,  
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



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