

# BERARD ADRIEN

MASTER STUDENT · MASTER 2 SBCP

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## Education

### University Paris Cité - University Paris Saclay - Sorbonne University

Paris

MASTER IN BIOPHYSICS *Systèmes Biologiques et Concepts Physiques - Interface Physique*  
Biologie - PASTEUR INSTITUTE CLASSES

2024 - current

### Sorbonne University

Paris

MASTER IN FUNDAMENTALS PHYSICS - MAJOR IN STATISTICAL PHYSICS AND QUANTUM  
MECHANICS-MINOR IN ARTIFICIAL INTELLIGENCE AND BIOPHYSICS

2022 - 2024

### PSL University - Henri IV High School

Paris

BS UNDERGRADUATE DEGREE CPES MAJOR IN EXPERIMENTAL SCIENCES

2019 - 2022

### Lycée Théodore de Banville

Moulins

FRENCH BACCALAURÉAT IN SCIENCES (MINOR IN BIOLOGY) - JURY'S CONGRATULATIONS AND  
HIGHEST HONORS

2016 - 2019

## Publications

### IN PREP

**Berard A.**, Gissinger J., Sneppen K., Thon G., 2024. Epigenetic memory achieved through chromatin-induced phase separation

## Research Experience

### University of Copenhagen - Dept of Biology

Copenhagen

SUPERVISORS: DR. GENEVIEVE THON, DR. KIM SNEPPEN

Feb. 2024 - Aug. 2024

- Research internship: "Epigenetic memory achieved through chromatin-induced phase separation"

### Sorbonne University- Paris - Laboratoire Jean Perrin

Paris

SUPERVISOR: DR. MAXIME DEFORET

Spring 2023

- Research internship: "Experimental study of swarming behavior of *Pseudomonas aeruginosa* using microscopy and image analysis"

### ESPCI- Physics for medecine lab

Paris

SUPERVISORS: DR. MATHIEU PERNOT, DR. OLIVIER PEDREIRA

Fall 2022

- Research internship: "Multiparameters' evaluation of cardiac dynamic using ultra-fast echocardiography"

### Collège de France - Centre Interdisciplinaire de Recherche en Biologie

Paris

SUPERVISORS: DR. OLIVIER RIVOIRE, DR. MAITANE MUNOZ BASAGOITI

Fall 2021

- Internship duties : Molecular dynamics simulation of a minimal elastic catalyst model

## Teaching Experience

2024 - 2025	<b>First year university course of Computer Science</b> , Lecturer at Dauphine - PSL University	Paris
2023	<b>High School mathematics, chemistry, physics, computer science</b> , Private tutor	Paris
2023	<b>Middle School mathematics</b> , Private tutor	Paris
2022	<b>High School mathematics</b> , Private tutor	Paris
2022 - 2023	<b>BS CPES mathematics, physics, chemistry</b> , Tutor	Paris
2022	<b>High school physics, chemistry, biology</b> , Private tutor	Moulins
2018	<b>Middle School mathematics</b> , Private tutor	Moulins

## Skills

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### Languages spoken

FRENCH (NATIVE) - ENGLISH (FLUENT) - ITALIAN (INTERMEDIATE) - DANISH (BEGINNER)

### Coding skills

PYTHON, MATLAB, FORTRAN, LAMMPS, L<sup>A</sup>T<sub>E</sub>X, IMAGEJ, FIJI, ZOTERO, SLURM

### Experimental skills

MOLECULAR BIOLOGY : BLOTS, PCR, ... - CELL BIOLOGY : YEAST, HUMAN CELLS - MICROBIOLOGY :  
FROM P1 TO P2 - MICROSCOPY