

# LUCAS RINCÓN DE LA ROSA

PhD Student: Bioinformatics and applied AI

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in Lucas Rincon de la Rosa

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## Profile

I am a PhD student at the Paris Brain Institute (ICM), specializing in Genetics and Tumor Development. Currently based in Paris, my research primarily focuses on Primary CNS Lymphomas, where I leverage both image and omics data. Drawing on my background in mathematics and computer science, I employ applied AI techniques to address challenges in patient diagnosis. My role at the ICM does not only fulfill my passion for research and applied mathematics but also provided me with invaluable opportunities to apply these skills to the dynamic and important landscape of medical healthcare.

## Professional Experience

PhD Student: Bioinformatics  
Paris Brain Institute (ICM), Paris

Nov 2023 – Present

- Clonal and spatial analysis of primary CNS lymphoma.

Research Intern: Applied Maths and AI  
Paris Brain Institute (ICM), Paris

Apr 2023 – Oct 2023

- Image segmentation for brain tumors in 2D using deep learning models.
- Creation of point cloud and 3D meshes out of stack 2D images to have a volume representation of the tumors.

## Education

Master 2: Machine Learning and Artificial Intelligence  
Sorbonne Université, Paris

Sept 2022 – Present

- Courses of interest in Mathematics: Statistical learning, Introduction to Machine Learning, First order methods for non convex optimization, Convex sequential optimization.
- Courses of interest in Computer Science: Advance and Deep Learning, Automatic deep learning, Reinforcement Learning, Large scale data bases.

Bachelor in Mathematics  
Universidad Complutense de Madrid

Sept 2017 – June 2022

Thesis: Numerical study of the fractional time diffusion equation

Bachelor in Physics  
Universidad Complutense de Madrid

Sept 2017 – June 2022

Thesis: Weather and climate extremes

## Achievements

100 best grades in EVAU  
Entry exam to university

Excellence scholarship  
Madrid, Spain

Black belt in Karate  
I have practiced karate for 13 years - Regional Champion - Two times participant in the National Championship

Interests  
Reading, sport and chess

## Languages

Spanish (Native) ● ● ● ● ●

English (C1) ● ● ● ● ●

French (C1) ● ● ● ● ●

## Coding

Python ● ● ● ● ●

Pytorch ● ● ● ● ●

Sklearn ● ● ● ● ●

XGBoost ● ● ● ● ●

R ● ● ● ● ●

## Exchanges

United States  
Oklahoma Aug 2015- Sept 2016

England  
Horsham Summer 2015

France  
Nantes Summer 2014