🗓 22 years old
🏳 French
📍 Paris

Languages

English
Fluent Speaker

French
Native

Spanish
Native

Coding Skills

Data Bases and RDF
Semantic Web, RDF, Mini Dom and other courses in bachelor's degree. SQL and data base management.

Data Science and Machine Learning
Python projects (using sklearn, pandas, pytorch for data science purposes)

Git versioning system mastery

Video Game development
C#, C++, godot and lua. Use of Unity and Unreal Engine as well.

Web Development
HTML, CSS, javascript. Creation of a personal portfolio website.

App Development
QT Creator, Android Studio, React.

3D and physics simulations
SPH, RigidBody simulation projects with openGL interface.

Interests and Achievements.

Video Games development with Unity and Unreal Engine , rendering with Blender and OpenGL.

Robotics
Seven years of study and practice, with multiple participations in robotics and programming competitions.

Competitive Rock Climbing
Six years of managing and establishing the rock climbing club at my former high school, participating in competitions including the Coupe de l'X.

Six Years of Theater and Improvisation.
Admitted to the Cours Florent Examination

Mael RIOS

3D/VR interactive development and Machine Learning Internship

Seeking internship opportunities as part of my engineering degree from Télécom Paris, specializing in interactive systems and graphic rendering as well as data science and machine learning.

Education

Master's Degree in Engineering

Since September 2022 Télécom Paris Palaiseau, France

Second year of the engineering program at Télécom Paris. Specialization in **IGR: 3D and interactive systems** as well as **Data Science and Machine Learning**.
Projects:
- Development of a 3D game on Unity: Ecolife.
- Development of a 2D game on Unity for the Ludum Dare jam.
- SPH Simulation project with OpenGL.

Cycle Pluridisciplinaire d'Études Supérieures - Bachelor of Science in Computer Science.

From September 2019 to June 2022 Paris Sciences et Lettres Paris, France

Multidisciplinary Bachelor of Science from Paris Sciences et Lettres with a specialization in Computer Science at Paris Dauphine. Concurrently obtained the **IM2D degree in Data Science** from Paris Dauphine.

Bachelor of Engineering Sciences

From September 2017 to June 2019 Lycée Franco Mexicain Mexico City, Mexique

Graduated with high honors (19.6/20) from the **Baccalauréat in Engineering Sciences**.

Internships and Profesional Experience

First year 3D development and robotics internship

From July 2023 to September 2023 Learning Robots CEA Saclay

Developed a 3D simulator on Unity to replicate the activities of the AlphAI robot by Learning Robots. Responsible for managing communication between the Learning Robots API and the simulator and all Physics Engine regulations.

Assisted in the development of an online Python MOOC.

Since October 2022 France IOI Télecom Paris, Palaiseau

Beta tester for an introductory web-based Python MOOC with France IOI and Télécom Paris, and assisted in the development of the MOOC. I was responsible for creating exercises, audio presentations using the CodeCast tool, and fixing bugs and errors in the software.

Machine Learning Research Internship

From February 2022 to June 2022   MILES, Unité de Recherche Lamsade Université Paris Dauphine

Topic: Study of **robust defense guarantee against adversarial attacks via 'Randomized Smoothing'**. Included research paper review and implementation of neural networks using Pytorch, supervised by Mr. Raphael Ettedgui, culminating in an oral defense and written dissertation.

First Research Internship

From February 2021 to June 2021   Laboratoire de Recherche d'Informatique du LIP6 - Unité Systèmes Multi Agents (SMA) Université Sorbonne Jussieu, Paris

Topic: Implementation of **attribution methods (Python) and study of core-compatibility** in housing markets.
Research Internship supervised by Mr. Nicolas Maudet and Ms. Aurélie Beynier, including a written report and an oral presentation.

Tutoring Experience

Scientific Tutoring for Scholar Guidance Assistance

Since December 2022 Programme #GENIUS Institut Polytechnique Palaiseau, France

One hour of tutoring per week dedicated to high school students, including the organization of:
- General scientific culture classes.
- Study methodology courses.
- Information and guidance sessions (Parcoursup) for higher education

First Year's Bachelor's Degree Tutoring

From September 2020 to January 2021 CPES, Paris Sciences et Lettres Paris, PSL

Two hours weekly of physics tutoring at Paris Sciences et Lettres.