

# PIERRE MARREC

PhD Student in Computer Vision at INRIA

## CONTACT

- ✉ pierre.marrec@inria.fr
- ☎ +33667496415
- 📍 Botve, 29300 Arzano
- 🐙 Github
- 🌐 LinkedIn

## SKILLS

### Programming Languages

- Python/PyTorch
- Dart / Flutter
- C/C++
- Cuda

### Other Computing Skills

- Latex
- Git
- Docker
- SQL
- HTML/CSS

### Languages

- French Native language
- English C1 Level
- German A2 Level
- Japanese JLPT N4 (≈ A2)

## EDUCATION

### Master's in Fundamental Computer Science (2022)

As part of the ENS diploma with honors (14.74/20)

### Bachelor's in Fundamental Computer Science (2020)

From ENS de Lyon, with honors (14.14/20)

### Double Bachelor's in Mathematics (2020)

Alongside studies at ENS de Lyon.

### Cambridge Advanced Exam (2020)

Grade C

Certifies a C1 level in English.

### Scientific Baccalaureate

### Mathematics Track (2016)

With highest honors

## SPORTS ACTIVITIES

Judo, Jujitsu, Boxing, MMA, Running/Trail, Hiking, Climbing



## PROFESSIONAL EXPERIENCE

- January 2025 - April 2025  
Université Grenoble Alpes  
Teaching Assistant  
Systems and Networks for third-year undergraduates and Computer Architecture for second-year undergraduates
- October 2024 -  
Grenoble - INRIA / LJK  
PhD  
Computer vision for High Level Sport Athlete : Multiview 3d human pose estimation, Fusion of multimodal motion data, inverse kinematics, large vision models, Video Temporal Actions detections
- April - July 2024  
Paris - INSEP  
IRMES  
Research Internship: 3 months  
Applying Deep Learning to the longitudinal analysis of high-level athletes' training data and performance prediction. Predicting perceived effort from power output.
- 2023-2024  
Japan - Tokyo  
National Institute of Informatics  
Sugimoto Lab  
Research Internship: 5 months  
In Computer Vision on the topic "Animatable Neural Human Body With Clothes From Casual Videos". Neural networks, Ray marching, CUDA implementation
- 2022  
Grenoble - PERFANALYTICS  
LJK - Université Grenoble Alpes  
Research Internship: 6 months  
Computer Vision with the title: "3D Human Mesh Reconstruction from Multi-Camera Videos: Case of High-Level Sport". Part of the work was presented at CMBBE 2023 - 18th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering. Neural networks, statistical models, automated video rendering
- 2021  
Lyon - SYSCOMA - LIRIS  
Research Internship: 3 months  
Deep Learning: "Learning Algorithms using Neural Networks". Transformers, recurrent networks, logic learning
- 2020  
Grenoble/Orléans - CNRS  
MADICS - DOING  
Research Internship: 6 weeks  
Undergraduate research: "Data Science Query and Machine Learning". Publication: [https://doi.org/10.1007/978-3-031-14135-5\\_16](https://doi.org/10.1007/978-3-031-14135-5_16). Neural networks, graph databases, graph predictions

## EDUCATION

- 2022-2023  
Lyon Entrepreneurial Center  
Student Entrepreneur Diploma  
Gap year: Training in entrepreneurship with a project to create an application for tracking and analyzing weight training in a gamified way.
- 09/2019 - 2024  
ENS Lyon, France  
École normale supérieure de Lyon  
First year: Core studies at ENS Lyon, earning a bachelor's degree in fundamental Computer Science and a double bachelor's in Mathematics.  
Second and third year: Continued studies at ENS Lyon, earning a research master's in fundamental Computer Science.
- 09/2016 - 07/2019  
Lycée La Pérouse-Kérichen, Brest, France  
High School Preparatory's Class in MP  
First year in MPSI, followed by two years in MP\* with a Computer Science option.

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SKILLS

Programming Languages

Python/PyTorch	●●●●●●
Dart / Flutter	●●●●●●
C/C++	●●●●●●
Cuda	●●●●●●

Other Computing Skills

Latex	●●●●●●
Git	●●●●●●
Docker	●●●●●●
SQL	●●●●●●
HTML/CSS	●●●●●●

Languages

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ASSOCIATIVE LIFE

Editorial Board (2019-)	<a href="#">Papier-Mâché</a>	Science popularization
President (2020-2023)	<a href="#">Confér*ENS and Démesures</a>	Science popularization
President (2019-)	Armoric Judo	Judo-Jujitsu Club
Treasurer (2020-2021)	ENS de Lyon	Student Union
Student Representative (2022-2023)	ENS de Lyon	Administrative Council

EXTRACURRICULAR ACTIVITIES

📅 09/2020 - 2023 📍 Lycée Du Parc & Lycée La Martinière, Lyon	Oral examiner in CPGE MP
Examiner for oral assessments in preparatory classes for top engineering schools, MPSI, MP, MP*	
📅 October 2019, 2021, 2023 📍 ENS Lyon	Science Outreach Events
Organization and facilitation of various activities at the Science Festival and Geek Touch (Lyon) on topics such as the work of researchers, critical thinking, different scales, and AI.	
📅 09/2004- 📍 Arzano, France	Judo-Jujitsu
Second-degree black belt, Club President, International-level competitor in Jujitsu, Regional referee, and tournament co-organizer.	