PIERRE MARREC

PhD Student in Computer Vision at INRIA

CONTACT

- ✉ pierre.marrec@inria.fr
- ☎ +33667496415
- ⚲ Botve, 29300 Arzano
- ⌨ Github
- in Linkedin
- ⌂ Personal Website

SKILLS

Programming Languages

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

Other Computing Skills

Latex	●●●●●
Git/Docker/Bash	●●●●●
SQL	●●●●○
HTML/CSS	●●●●○
Blender	●●●○○

Languages

French	Native language
English	C1 Level
German	A2 Level
Japanese	JLPT N4 ($\simeq$ 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

Teaching Assistant
📅 January 2025 - April 2025
⚲ Université Grenoble Alpes
Systems and Networks for third-year undergraduates and Computer Architecture for second-year undergraduates

PhD
📅 October 2024 -
⚲ Grenoble - INRIA / LJK
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

Research Internship: 3 months
📅 April - July 2024
⚲ Paris - INSEP
IRMES
Applying Deep Learning to the longitudinal analysis of high-level athletes' training data and performance prediction. Predicting perceived effort from power output.

Research Internship: 5 months
📅 2023-2024
⚲ Japan - Tokyo
National Institute of Informatics
Sugimoto Lab
In Computer Vision on the topic "Animatable Neural Human Body With Clothes From Casual Videos". Neural networks, Ray marching, CUDA implementation

Research Internship: 6 months
📅 2022
⚲ Grenoble - PERFANALYTICS
LJK - Université Grenoble Alpes
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

Research Internship: 3 months
📅 2021
⚲ Lyon - SYSCOMA - LIRIS
Deep Learning: "Learning Algorithms using Neural Networks". Transformers, recurrent networks, logic learning

Research Internship: 6 weeks
📅 2020
⚲ Grenoble/Orléans - CNRS
MADICS - DOING
Undergraduate research: "Data Science Query and Machine Learning". Publication: https://doi.org/10.1007/978-3-031-14135-5_16. Neural networks, graph databases, graph predictions

🎓 EDUCATION

Student Entrepreneur Diploma
📅 2022-2023
⚲ Lyon Entrepreneurial Center
Gap year: Training in entrepreneurship with a project to create an application for tracking and analyzing weight training in a gamified way.

École normale supérieure de Lyon
📅 09/2019 - 2024
⚲ ENS Lyon, France
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.

High School Preparatory's Class in MP
📅 09/2016 - 07/2019
⚲ Lycée La Pérousse-Kérichen, Brest, France
First year in MPSI, followed by two years in MP* with a Computer Science option.

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ASSOCIATIVE LIFE

Editorial Board (2019-)	Papier-Mâché	Science popularization
President (2020-2023)	Confér'ENS and Démesures	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.