



Yssouf SANOGO

Nuclear physics · Instrumentation · Medical imaging

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Marseille, France | Available to work throughout France | Driving licences A and B · Vehicle available

Graduate of the Master's in Fundamental Physics and Applications at Nantes Université, currently enrolled in the second year of the Master's in Instrumentation, Measurement and Metrology, IMSci-Nu track, at Aix-Marseille Université. Two scientific internships in radionuclide production and SPECT simulation and optimisation.

Goals: scientific internship / scientific employment / PhD

SKILLS

Applied during internships

Monte Carlo simulation
PHITS / SIMIND

Image reconstruction and analysis
PyTomography / AMIDE / Fiji / InterView XP

Scientific programming
Python

Measurements and quality control
Phantom acquisitions / simulation-to-experiment comparison

ACADEMIC KNOWLEDGE

Nuclear and radiation physics
Academic knowledge of radiation-matter and photon-matter interactions, attenuation, Compton scattering, detection, dosimetry and radiation protection.

Numerical methods and programming
C / C++ / MATLAB / Octave

Particle transport simulation
MCNP / Geant4 / GATE

LANGUAGES

French: fluent · English: B2

CURRENT PROGRAMME

M2 IMM · IMSci-Nu
Aix-Marseille Université - 2026-2027
Programme taught in English

SCIENTIFIC EXPERIENCE

May 2026 - Aug 2026 | Internship - M2 - 4 months
SPECT simulation & imaging optimisation

IMENA · Institut de Médecine Nucléaire d'Abidjan - Abidjan, Côte d'Ivoire
- Model SPECT acquisitions with SIMIND and reconstruct images with PyTomography.
- Analyse images and counting statistics with Python, AMIDE, Fiji and InterView XP.
- Perform phantom acquisitions and contribute to gamma-camera quality control.

Apr 2025 - May 2025 | Internship - M1 - 2 months
Medical radionuclide production

GIP ARRONAX - Nantes, Pays de la Loire, France
- Study medical radionuclide production routes for the ICONÉ project.
- Run PHITS Monte Carlo simulations and use cross-section data to estimate production yields.

EDUCATION

2026-2027	Second year of the Master's in Instrumentation, Measurement, Metrology · IMSci-Nu Aix-Marseille Université Programme in progress
2025-2026	Master's in Fundamental Physics and Applications · PFA RIA Nantes Université Degree awarded
2024-2025	First year of the Master's in Fundamental Physics and Applications Nantes Université Year completed
2023-2024	First year of the Master's in Fundamental Physics and Applications · distance learning Aix-Marseille Université Documented curriculum
2022-2023	Licence in Engineering Sciences Université Clermont Auvergne - Technology for Health Degree awarded
2021-2022	First year of a Master's in Medical Physics Tizi-Ouzou Year of study
2018-2021	Licence in Fundamental Physics Université Abderrahmane Mira de Béjaïa Degree awarded
2018	Scientific Baccalauréat · series D Lycée Moderne Kouï Mamadou Zouan-Hounien Degree awarded