

Samuel Peyrière

Research Interests

GENERAL	Biophysics, Statistical physics, Out-of-equilibrium physics, Disordered systems.
METHODS	Optical imaging ; Numerical modelling ; Single-molecule microscopy ; Nanomanipulation ; Optogenetics.

Education

2023 – 2024	Master, Year 1 in Physics - École Normale Supérieure PSL Courses: Soft matter and interfaces, Experimental physics, Machine learning, Relativistic quantum mechanics, Symmetries in physics, Phase transitions, Quantum matter, Biophysics
2022 – 2023	Licence, Year 3 in Physics - École Normale Supérieure PSL - Highest Honors Courses: Analytical mechanics, Python, Statistical physics, Experimental physics, Continuum mechanics, Optics, Electromagnetism & Relativity, Orders of magnitude, Hydrodynamics, Solid-state physics, Astrophysics, Molecular and cellular biology, Introduction to life sciences, Arabic, Spanish
2020 – 2022	Classe Préparatoire aux Grandes Écoles (Physics, Mathematics & Chemistry) - Lycée Sainte Geneviève
2020	Baccalauréat Scientifique Option Européenne - Lycée Levassieur - Highest Honors

Research Experience

2023	Internship (1 month) - Laboratoire Kastler Brossel - 'Optical imaging in biological and complex media', Paris, France Developed an electro-absorbance experiment to prepare for THz manipulation of metal oxides. Supervisor: Raj Pandya , Hilton Barbosa de Aguiar, Thierry Barisien, Sylvain Gigan.
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Computational skills

PROGRAMMING LANGUAGES	Python, Java, Matlab, SQL.
TOOLS AND SOFTWARE	Jupyter notebooks, LaTeX, Photoshop, Arduino, Red Pitaya

Languages and Nationalities

FRENCH	Native language.
ENGLISH	Native language.
SPANISH	Intermediate proficiency.
ARABIC	Beginner.
NATIONALITIES	French, Honduran, Irish and British.

Other Interests and Activities

HISTORY	Global and connected modern history (16th - 17th century) The 19th century in France, a history of uprising
SPORTS	Dance performance (Salsa, Modern Jazz), Climbing, Open Water Swimming, Mountain Biking, Hiking, Speleology.
READING	Literature, Non-Fiction.
MUSIC	Playing piano, Jazz, Soul.

Certifications

DRIVING	Permis B
LICENCE	
LANGUAGE	English CAE, Level C2

References

Dr. Raj Pandya:
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75005 Paris, France

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