Education

Ecole normale supérieure Paris-saclay

Gif-Sur-Yvette

Eleve normalien, physics department

2020-2024

ARTeQ, ENS Paris-Saclay

Gif-Sur-Yvette

Training program on quantum technologies, so a mix of quantum mechanics and computer science lectures

2023-2024

• Selected Optional Coursework: Quantum Information Theory, Quantum matter

NPAC, Université Paris-Saclay

Orsay, Paris

2nd year of masters, speciality Nuclei Particles Astroparticles Cosmology

2022-2023

• Selected Optional Coursework: General relativity, Quark matter physics

M1 Irène Joliot-Curie, Université Paris-Saclay joint with ENS

Orsay, Gif-sur-yvette

1st year of masters

2021-2022

• Selected Optional Coursework: classical and quantum electromagnetism, phase transitions, general relativity and cosmology, stochastic processes

L3 fundamental physics, Université Paris-Saclay joint with ENS

Orsay, Gif-sur-yvette

 $Under graduate\ studies$

2020-2021

CPGE at Lycée Blaise Pascal

Orsay

Studies to prepare for national examinations for engineer schools and ENSs

2018-2020

Experience

LUTH, Observatoire de Paris

Meudon, France

Internship with Micaela Oertel at LUTH Laboratoire Univers et Théorie

March-June 2023

• Neutron Stars' equation of state to relate to the Gravitation waves produced by it. Relativistic model of neutron star matter. Theory and simulation.

Institute for theoretical physics, TU Berlin

Berlin, Germany

Internship with André Eckardt and Alexander Schnell in the Quantum non-Equilibrium Dynamics group

March-June 2022

 Quantum statistical dynamics: study of open and dissipative systems, floquet engineering and dynamics of bosonic gases inside a non trivial interacting environment.
We derive the Lindbladian master equation of the density operator using different approximations that we discuss.

LPNHE, IN2P3 Paris, France

Internship with Nicolas Regnault at LPNHE Laboratoire de Physique Nucléaire et de Hautes Energies

May-June 2021

• Data analysis of lightcurves obtained from type Ia supernovaes, to improve the magnitude-redshift relation to better constraint cosmological models: Development of a new generation of the SALT (Spectral Adaptative Lightcurve Templates) model.

Technical Skills

Languages: French (mother tongue), English (fluent-C2), Spanish (correct)

Developer Tools: Mostly Python, but some basics of C++, Fortran 90, SQL, HTML and CSS used in past internships

 ${\bf Technologies/Frameworks:}\ {\bf QISKIT,} Perceval\ (\ for\ quantum\ computing)$

Trivia: Followed this lecture on Black Holes by Eric Gourgoulhon at ENS