

Hugo Plombat

Ph.D Student



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Skills

Computing :

Advanced : Python

Intermediate : Fortran, C

Basics : R, GameMaker Language

LaTeX, Iraf

Languages :

French - Native

English - Fluent

Spanish - Basics

Training Courses –

-Theoretical Aspects of Astroparticle
Physics, Cosmology and Gravitation -

GGI Florence (2 weeks school)

-FIDLE "Introduction to Deep
Learning" (20h)

-Bayesian Statistics with R (12h)

Extra-Curricular –

Piano

Judo - Brown belt

GameMaker Language - Basics

Driving licence

Experiences

Mar-Jun '21 2nd year master's internship

IRAP Toulouse

Study topic : "Mapping the Distribution of Baryons in Galaxies, a crucial ingredient to estimate the dark matter content at high redshift"
Supervisors : Thierry Contini, Benoît Epinat & Wilfried Mercier
Keywords Galaxies, Photometry (HST), Spectroscopy (MUSE), SED fitting, galaxy models, rotation curves

Sep-Dec '20 Group Research project

Observatoire de Haute-Provence

Colour-magnitude diagram construction of a globular star cluster in the Milky Way observed with a 1.20m telescope.
Supervisors : Julien Morin & Bertrand Plez

May-Jun '20 1st year master's internship

LUPM Montpellier University

Study topic: "Preparation for Cosmological Analyses with the Legacy Survey of Space and Time (LSST) of the Vera Rubin Observatory (VRO)."
Supervisor : Eric Nuss

July '19 3rd year Bachelor's internship

LUPM Montpellier University

Study topic: "Cosmic Ray Impact on Extrasolar Earth-Like Planets in Close-in Habitable Zones"
Supervisor : Alexandre Marcowith

Summer'18-19 City Employee

Municipality of Mauguio

Green Spaces Department

Education

2021- 2024 PhD Degree (in progress)

LUPM Montpellier University

Estimation of constraints on cosmological models by the 21 cm line of primordial hydrogen.

PhD Supervisor : Denis Puy

Keywords : Recombination, 21cm line, Cosmological models, Perturbations, Primordial Molecules

2019-2021 Master Degree "Cosmos, Fields & Particles"

Montpellier University

Learning in Particle Physics, Quantum Field Theory, Astroparticles, Astrophysics and Cosmology.

2016-2019 Bachelor of Science degree

Montpellier University

Specialization in Fundamental Physics

2016 Baccalaureate of Science

La Merci Littoral High School

Natural science specialisation. Graduation with acknowledgments.
« Euro-English » and « Piano » options.