

## Research Experience

Post-Doctorate Associate
Duke University

PhD student
CPPM, Aix-Marseille University
Subject: Measuring the growth rate of structures with type Ia supernovae.

#### **Education**

0	PhD - Astrophysics & Cosmology ED 352, Aix-Marseille University	Marseille 2019-2020
0	Master's degree 2 <sup>nd</sup> year - Subatomic Physics and Cosmology UFR PhiTEM, Grenoble-Alpes University Admitted with honours	<b>Grenoble</b> 2020-2023
0	Magister of Physics 3 <sup>rd</sup> year  UFR PhiTEM, Grenoble-Alpes University  Admitted	<b>Grenoble</b> 2019-2020
0	Master's degree 1 <sup>st</sup> year - Physics / Fundamental Research UFR PhiTEM, Grenoble-Alpes University Admitted with honours	<b>Grenoble</b> 2018-2019
0	Magister of Physics 2 <sup>nd</sup> year  UFR PhiTEM, Grenoble-Alpes University  Admitted	<b>Grenoble</b> 2018-2019
0	Bachelor's degree - Fundamental Physics Faculté des Sciences, Université de Montpellier	<b>Montpellier</b> 2017-2018

#### **Publications**

Admitted

o Carreres et al. 2023. Growth-rate measurement with type-la supernovae using ZTF survey simulations. Published in A&A. DOI: https://doi.org/10.1051/0004-6361/202346173. Preprint available at https://arxiv.org/abs/2303.01198.

# **Schools & Internships**

	Euclid Summer School - 2 weeks / year lectures	Hyères, Biarritz and Banyuls
	Euclid France	August 2020 - 2021 - 2022

Subject: Science of futur cosmological surveys

Pre-Thesis Internship

Centre de Physique des Particules de Marseille

Subject: Cosmology with type la supernovae

Marseille

March-Jully 2020

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Master's degree 1st year InternshipGrenobleLaboratoire de Physique Subatomique et CosmologieMay-June 2019Subject: Search for new particles that decay into top-antitop pair

OCEVU summer school

Labex OCEVU

June 2017

One week of seminars and one week-end of observations at Hautre-Provence Observatory

## Responsibilities, Teaching & Outreach

- o 2021-2023: Co-organisation of the CPPM cosmology group journal club
- o 2021-2022: **Co-organisator** & **Volunteer** for the CPPM participation at *Fête de la Science* (the largest French science outreach event) at Marseille Townhall
- o Graduate Teaching Assistant (64 hours / year) during PhD at Aix-Marseille University
- Outreach website co-created with L. Vacher (https://yolonomy.github.io)
- o 2016-2017: Maths tutoring for high-school students

## **Fellowship**

- o PhD fellowship Aix-Marseille University ED 352, 3 years contract
- o LSSTC Enabling Science Program Award 2021, 5000\$ award

### Talks & Posters

- o Poster "Peculiar velocities with SNe Ia" at DESC Meeting 2022 at University of Chicago
- o Poster "Peculiar velocities with SNe Ia" + proceedings at Rencontres de Moriond 2022
- o Talk "Growth rate with Type Ia Supernovae" at LSST France 2022
- Multiple talks at ZTF France (Lyon, Marseille, Clermont-Ferrand), ZTF SN1a (Stockholm) and ZTF international (Paris) collaboration meetings.

### **Skills**

Computer languages:

Python: AdvancedC/C++: Basic

- HTML/CSS: Beginner

Languages:

French: NativeEnglish: FluentGerman: Beginner