

# Bastien Carreres | CV

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## Education

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- **PhD** **Marseille**  
*CPPM, Aix-Marseille University* *October 2020-Today*  
Subject: Measuring the growth rate of structures with type Ia supernovae
- **Master's degree 2<sup>nd</sup> year - Subatomic Physics and Cosmology** **Grenoble**  
*UFR PhiTEM, Grenoble-Alpes University* *2019-2020*  
Admitted with honours
- **Magister of Physics 3<sup>rd</sup> year** **Grenoble**  
*UFR PhiTEM, Grenoble-Alpes University* *2019-2020*  
Admitted
- **Master's degree 1<sup>st</sup> year - Physics / Fundamental Research** **Grenoble**  
*UFR PhiTEM, Grenoble-Alpes University* *2018-2019*  
Admitted with honours
- **Magister of Physics 2<sup>nd</sup> year** **Grenoble**  
*UFR PhiTEM, Grenoble-Alpes University* *2018-2019*  
Admitted
- **Bachelor's degree - Fundamental Physics** **Montpellier**  
*Faculté des Sciences, Université de Montpellier* *2017-2018*  
Admitted
- **Preparatory Classes 1<sup>st</sup> year - Maths/Physics/Engineering Science** **Nîmes**  
*CPGE Lycée Alphonse Daudet,* *2015-2016*  
Admitted
- **Baccalauréat - Science with major in Maths** **Clermont l'Hérault**  
*Lycée René Gosse,* *2014-2015*  
Admitted with first class honours

## Schools & Internships

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- **Euclid Summer School - 2 weeks / year lectures** **Hyères, Biarritz and Banyuls**  
*Euclid France* *August 2020 - 2021 - 2022*  
Subject : Science of future cosmological surveys
- **Pre-Thesis Internship** **Marseille**  
*Centre de Physique des Particules de Marseille* *March-July 2020*  
Subject : Cosmology with type Ia supernovae
- **Master's degree 1<sup>st</sup> year Internship** **Grenoble**  
*Laboratoire de Physique Subatomique et Cosmologie* *May-June 2019*  
Subject : Search for new particles that decay into top-antitop pair
- **OCEVU summer school** **Montpellier**  
*Labex OCEVU* *June 2017*  
One week of seminars and one week-end of observations at *Haut-Provence Observatory*

## Responsibilities, Teaching & Outreach

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

- 2016 - 2017 : **Maths tutoring** for high-school students

## Fellowship

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

## Talks & Posters

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- Poster "Peculiar velocities with SN Ia" at DESC Meeting 2022 at University of Chicago
- Poster "Peculiar velocities with SN Ia" + proceedings at Rencontres de Moriond 2022
- 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

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- **Computer languages:**
  - **Python** : Advanced
  - **C/C++** : Basic
  - **HTML/CSS** : Beginner
- **Languages:**
  - **French** : Native
  - **English** : Fluent
  - **German** : Beginner