



Highly motivated and hard-working astrophysics student, looking forward to be a part of tomorrow's research

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French Native  
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## References

Prof. Frederic Courbin  
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# Pierre Boccard

*Astrophysics student*

## Education

### MSc. in physics

Sep 2021 - Oct 2023

*Ecole Polytechnique Fédérale de Lausanne (EPFL)*

Physics Master specializing in Astrophysics and Cosmology

### Master's Thesis in astrophysics

March 2023 - Oct 2023

*University of Chicago*

Measuring dark energy equation of state parameter from a compound lens system using Lenstronomy Software.

### BSc. in physics

Sep 2018 - July 2021

*Ecole Polytechnique Fédérale de Lausanne (EPFL)*

Major in physics; studying a broad range of physics courses.

## Work experience

### Tutor for undergraduate students

Sept 2019 - Jan 2023

*Ecole Polytechnique Fédérale de Lausanne (EPFL)*

- General mechanics
- Thermodynamics
- Physics of fluids

### Mathematics teacher

Aug 2022 - Dec 2022

*PrEP School Lausanne*

- Teacher in a private school for post-high school students

## Certifications

### TOEFL

Dec 2020

Score of 106 on the TOEFL test

# Laboratory work

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## Astrophysics Lab Master 3rd semester

Sept 2022 - Feb 2023

Research project in galaxy formation. How do supermassive black holes co-evolve with their host galaxy. The purpose of this project was to use the IllustrisTNG simulations to study host galaxy – black hole correlations

## Astrophysics Lab Master 2nd semester

Feb 2022 - July 2022

Research project in Cosmology. Study of the clustering of voids in the BigMultiDark simulations. (grade 5.5/6)

## Astrophysics Lab Master 1st semester

Sep 2021 - Feb 2022

Overview of research in astrophysics and cosmology through exercises. Writing of scientific article (grade 5.75/6)

# Skills

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## Astrophysics skills

### *Lenstronomy software*

Advanced skills in utilizing the python software Lenstronomy for accurate and efficient analysis of strong gravitational lenses

### *N-body simulations and data handling*

Analysis of HST data and handling of IllustrisTNG simulations.

### *Programming skills*

Python, C++, Matlab and LaTeX proficiency.

## Soft skills

### *Writing of scientific papers*

### *Team work and management*

### *Teaching and tutoring*

### *Independence and creativity*

# Interests

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## Saxophone and piano

## Photography, drawing

## Tennis, sailing, basketball

## Cooking