



# Pierre BOCCARD

## EDUCATION

### Physics Master – EPFL 2021-Now

Studying Physics to obtain a Master degree in 2023

### Physics Bachelor – EPFL 2018-2021

Studied Physics and obtained a Bachelor degree in 2021

Laboratory work in multiple fields of Physics : nuclear, optical, plasma, condensed matter

### French baccalaureate - Lycée Blaise Pascal, Orsay 2015-2018

French baccalaureate in scientific section with highest mention. Allowed to develop scientific and creative thinking

## EXPERIENCE

### Summer Internship - Laboratory of Astrophysics

July-August 2022

2 months internship working on modeling gravitational lenses using wavelets and automatic differentiation

### Teacher of Mathematics – PrEP School Lausanne, Switzerland

Sept. 2021 - Now

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

### Internship - Institut d'astrophysique spatiale 2015

Internship in IAS Orsay, CNRS

### Tutor – EPFL 2019-now

Tutoring in Thermodynamics and General Physics for first year students in their exercises for 4 EPFL Professors in 8 courses

## PROJECTS

### Astrophysics – EPFL Autumn semester 2022

Study of the co-evolution of supermassive black-holes and their host galaxies

### Cosmology - EPFL Spring semester 2022

Study of the Large Scale Structure with Voids

### Astrophysics – EPFL Autumn semester 2021

Research in different fields of astrophysics

Highly motivated and hardworking physics student, looking forward to be a part of tomorrow's astrophysics research

### Personal information

Born 01/10/2000

Nationality : French, Swiss, Croatian  
+33762613912

[pierre.boccard@epfl.ch](mailto:pierre.boccard@epfl.ch)

Chemin des Triaudes 4b, Ecublens,  
Switzerland

### COMPUTER SKILLS

Programming languages : Python,  
C++, Matlab

### PRACTICAL SKILLS

Team work, independence,  
organisation and educational skills  
learned through teaching jobs

### ASTROPHYSICS SKILLS

Python programming, astronomical  
data handling and image reduction,  
N-body simulations and writing of  
scientific paper

### References

#### Dr Frederic Courbin

Prof. of Astrophysics

[Frederic.courbin@epfl.ch](mailto:Frederic.courbin@epfl.ch)

### LANGUAGES

French - native      Croatian - native  
English – C2      Spanish – B2

### Certificate

- TOEFL : 106 on the TOEFL test