



# Santiago Rodriguez

Physics Student,  
aspiring Astrophysicist

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## Social Network

- [Linkedin Link](#)
- [Github Project Page Link](#)

## Programming

- Python ●●●●●
- C++ ●●●●●
- Mathematica ●●●●●
- LaTeX ●●●●●
- CSS ●●●●●

## Languages

- German ●●●●●
- Spanish ●●●●●
- English ●●●●●

## Memberships

- DPG
- DMUN e.V.
- Grüne Berlin

## Education

### Study

- 2010 – 2018 **High School and Abitur** Deutsche Schule Madrid  
Focus: Physics, Mathematics and German for the written exams during the Abitur, also coursed in Informatics during the years it was available
- 2018 – Present **Bachelor Science Physics** Humboldt University Berlin  
Focus: In addition to the standard coursework, completed and participated in two lectures about galactic and extragalactic astronomy, an introduction to computational physics using Python, and listened to a masters course lecture on astroparticle physics, where I learned to also handle FITS files.

## Working Experience

### Jobs

- 2021-Present **Assistant Scientist and Programmer** Charite University Hospital  
Worked at the radiology department as an assistant scientist on a research software for handling, viewing and manipulating 3D CT scans in the format of stacked DICOM files. The goal of the project was to accurately reproduce and insert different kinds of artificial lesions into these datasets for later use in training of ML models and printing of 3D phantoms used to test radiology equipment.
- 2019-2021 **Laboratory Internship** Humboldt University Berlin  
Laboratory internship at the Humboldt University of Berlin as part of the B.Sc. Physics program. Learned to use different measuring devices like a scanning electron microscope (SEM) during the advanced internship and process the data alongside different kinds of uncertainties into a full LaTeX protocol in a publication format.
- 2019-2021 **Tutor for Mathematics and Physics** Studienkreis GmbH.  
Taught students up to 13th grade in the subjects mathematics and physics individually or in groups of up to 5 students at a time.
- 2016 **Intern at the Department for Material Physics** Universidad Autonoma de Madrid  
Researched the composition of colored fluoroapatite crystals using an spectroscope to measure the characteristic absorption and emission wavelengths of the contaminating rare-earth elements responsible for the coloring of the crystals.

### Voluntary

- 2017-2021 **Voluntary assistant** DMUN e.V.  
Assisted in various capacities such as chairing conferences with up to 100 participants at this non governmental organization in order to help in its mission to spread political education among young people.

## Publications and Projects

- 2020 **Hubble Pi**  
*Santiago Rodriguez*  
[GitHub Repository Link](#)
- 2022 **Solar System Simulation Tool**  
*Santiago Rodriguez*  
[GitHub Repository Link](#)

## Extra-Curricular Activities

- Sports: Cycling, Swimming
- Hobbys: Reading, Astrophotography