

## Curriculum Vitae

<b>Family name:</b>	Prinoth	<b>Work Address</b>	
<b>Given names:</b>	Bibiana		Institutionen för astronomi och teoretisk fysik, Box 43
<b>Title:</b>	M.Sc. in Physics ETH		+46 46 222 73 00
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### Education

**PhD student (doktorand) at Lund University** (September 2020 - today, expected to finish in 2024)

*Institutionen för astronomi och teoretisk fysik, Box 43, 221 00 Lund*

**Supervisor:** Dr. Jens Hoeijmakers, @: jens.hoeijmakers@astro.lu.se

**M.Sc Physics ETH 2018 - 2020**

ETH Zürich, Switzerland

**Final mark:** 5.4 / 6

**Main Courses:** General Relativity, Astrophysics II (Cosmology, Extragalactic Astronomy), Astrophysics III (Galactic Astronomy, Stars), Life in the Universe, Topics in the Evolution of the Universe, Astro-Particle-Physics I, Exoplanets

**Semester Project:** *The Detectability of Known Exoplanets with LIFE*

supervised by **Prof. Dr. Sascha Quanz**, Exoplanets & Habitability Group, ETH Zürich

*One of the major goals within the next step of exoplanet research is the detection of an Earth-twin and hand in hand with that also life outside of Earth. This project focused on the current possible detection rate that would be obtained at different wavelengths using LIFE (Large Interferometer for Exoplanets, <https://www.life-space-mission.com>).*

**Master's Thesis:** *Detectability of Radial Velocity Planets with ELT / METIS*

supervised by **Prof. Dr. Sascha Quanz**, Exoplanets & Habitability Group, ETH Zürich

*So far there are over 700 confirmed extra-solar planets which have been detected using the radial velocity method. With upcoming instruments it will be possible to also target these planets using direct imaging. Many new companions as well as already known ones, will be targeted by METIS (The Mid-infrared ELT Imager and Spectrograph) instrument at the ELT (Extremely Large Telescope). In the scope of my master's thesis I worked on the detectability of known radial velocity planets with ELT/METIS.*

**B.Sc Physics ETH 2015 - 2019**

ETH Zürich, Switzerland

**Semester Project** *An Attempt to Calculate the Disc Fractional Polarisation of HD 142169*

supervised by **Prof. Dr. Hans-Martin Schmid**, Exoplanets & Habitability Group, ETH Zürich

*An indication for the composition of a star's proto-planetary disc can be obtained by determining its intensity and disc fractional polarisation. I used different attempts to calculate the disc fractional polarisation. In this project I was working with data in the very-broad-band for the star HD 169142.*

### Observational Experience

**ESPRESSO @ the Very Large Telescope (VLT)**

European Southern Observatory (ESO), Cerro Paranal, Chile

Transit observation in designated Visitor Mode (dVM) during SC107 (Special Call), PID: 107.22QF

## Awards, Grants and Honours

**Research Grant - The Fund of the Walter Gyllenberg Foundation** (Nov 11, 2020)

*The Royal Physiographic Society of Lund*  
105'000 SEK

**VMP Assistentenaward** (May 2020)

*Award for excellent teaching*

Honour for excellent teaching assistance in spring semester 2020, awarded by the association of mathematics and physics students of ETH Zürich.

## Work Experience & Voluntary Work

**NDR Chair** (Jul 2021 - present)

*Naturvetenskapliga Doktorandrådet (NDR)*

The Science Doctoral Student Council represents about 500 Ph.D. students at the faculty on matters regarding the quality of education and supervision, and the availability of resources.

**NDR PhD representative Nämnden för utbildning på forskarnivå (NUF)** (Jan 2021 - present)

*Naturvetenskapliga Doktorandrådet (NDR)*

The committee has the task of working with quality development and quality assurance in doctoral education.

**Teaching Assistant in FYSB21 - Mathematical Methods for Waves, Vibrations and Diffusion** (Apr 2021 - Jun 2021, upcoming: Nov 2021 - Jan 2022)

*Department for Astronomy and Theoretical Physics*

Computer lab in heat diffusion

**Teaching Assistant in ASTC01 - Astrobiology** (Nov 2020 - Jan 2021, upcoming: Nov 2021 - Jan 2022)

*Department for Astronomy and Theoretical Physics*

Computer lab in exoplanet detections

**Teaching Assistant in Physics II** (Feb 2020 - Aug 2020)

*Institute for Particle Physics and Astrophysics at ETH Zurich*

Tutorship in fundamental physics for students in physics, mathematics and interdisciplinary sciences with physics / chemistry focus

**Teaching Assistant in Physics I & II** (Sep 2018 - Jan 2020)

*Institute for Particle Physics and Astrophysics at ETH Zurich*

Tutorship in fundamental physics for students in chemistry, chemical engineering, interdisciplinary sciences with bio-chemical focus and medicine

**Substitute Teacher in Mathematics** (02/15/16 - 02/19/16 and 09/21/15 - 09/25/15)

*Kantonsschule Sargans, Gymnasium*

**Co-Secretary General of IDEALiStiC** (12/02/2018 - today)

*IDEALiStiC - IDEA League Students in Conference*

**President of the Council for Student Associations at VSETH** (09/18/2018 - 02/19/2019)

*Verband der Studierenden an der ETH Zürich*

**Board member of VSETH for Communication** (11/08/17 - 03/13/18)

*Verband der Studierenden an der ETH Zürich*

**President of VMP** (10/13/16 - 10/05/17)

*Verein der Mathematik-und Physikstudierenden an der ETH Zürich*