

PERSONAL
INFORMATION

Family name: Prinoth
Given names: Bibiana
Title: M.Sc. in Physics ETH
Date of birth: May 20, 1996
Nationality: Swiss, Italian
Swedish personnummer: 960520-0428

CONTACT
INFORMATION

Institutionen för astronomi och teoretisk fysik
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ACADEMIC
HISTORY

(2020 – present) PhD student (doktorand) in Astronomy & Astrophysics
Lund Observatory, Lund University, Lund, Sweden

- Thesis topic: *Analysis of High-Resolution Transmission Spectra of Ultra-Hot Jupiters*
- Supervisor: **Jens Hoeijmakers**, jens.hoeijmakers@astro.lu.se, Institutionen för astronomi och teoretisk fysik, Box 43, 221 00 Lund
- Expected completion: Sep 2024

(2018 – 2020) M.Sc Physics ETH
Department of Physics, ETH Zürich

- **Master's Thesis:** *Detectability of Radial Velocity Planets with ELT / METIS*
- **Semester Project:** *The Detectability of Known Exoplanets with LIFE*
- Supervisor: **Sascha Quanz**
- Final mark: 5.4 / 6

(2015 – 2019) B.Sc Physics ETH
Department of Physics, ETH Zürich

- **Semester Project:** *An Attempt to Calculate the Disc Fractional Polarisation of HD 142169*
- Supervisor: **Hans-Martin Schmid**

OBSERVATIONAL
EXPERIENCE

ESPRESSO @ the Very Large Telescope (VLT)
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
The Royal Physiographic Society of Lund
SEK 105'000

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.

PUBLICATIONS

Titanium Oxide, Metals and Chemical Inhomogeneity in the Atmosphere of the Exoplanet WASP-189b

Bibiana Prinoth, H. Jens Hoeijmakers, Daniel Kitzmann, Elin Sandvik, Julia V. Seidel, Monika Lendl, Nicholas W. Borsato, Brian Thorsbro, et al., (submitted)

(Lund University co-authors in *italic*)

TALKS

Revealing Dynamics, Three-Dimensional Stratification, and Chemical Inhomogeneities in the Atmosphere of an Ultra-Hot Jupiter

Astronomdagarna, Oct 22-23, 2021 (contributed talk)

Abstract: <https://indico.cern.ch/event/1016890/contributions/4498334/>

Interpreting Detections of Metals in the Transmission Spectra of Ultra-hot Jupiters

ESO Atmospheres Conference and Workshop, Aug 23-27, 2021 (contributed talk)

Abstract: <https://eso.org/sci/meetings/2021/Atmo2021/program/Prinoth.html>

WORK
EXPERIENCE /
VOLUNTARY
WORK

NDR Chair (since Jul 2021)

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.

PhD representative Nämnden för utbildning på forskarnivå (since Jan 2021)

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 - Oct 2020)

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