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### PhD student at Geneva Observatory

*Density of exoplanets*, supervisor: François Bouchy.

Working on mass characterisation of transiting exoplanets through radial velocity observations with the high resolution spectrographs CORALIE on the Swiss 1.2m telescope and HARPS on the 3.6m ESO at La Silla Observatory, Chile.

### Published Work

Nielsen et. al., 2020, A&A, accepted: *Three Short Period Jupiters from TESS*.

Nielsen et. al., 2020, MNRAS, 492, 5399–5412: *Mass determinations of the three mini-Neptunes transiting TOI-125*.

Nielsen et. al., 2019, MNRAS, 489, 2478–2487: *WASP-169, WASP-171, WASP-175, and WASP-182: three hot Jupiters and one bloated sub-Saturn mass planet discovered by WASP-South*.

Nielsen et. al., 2019, A&A, 623, A100: *A Jovian planet in an eccentric 11.5 day orbit around HD1397 discovered by TESS*.

Full publication list here: <https://orcid.org/0000-0002-5254-2499> and <https://scholar.google.com/citations?user=R6feshoAAAAJ&hl=en>

### Research interests

Transition between ice- and gas-giant planets, exoplanet formation and evolution.  
Radial velocity observations, high resolution spectroscopy in the VIS & NIR.  
Transiting planets, ground- and space-based surveys

### Teaching and Outreach

Co-host of the Danish speaking podcast *Stjerneklart* about astronomy and space exploration. 26 episodes: <https://stjerneklart.dk/>  
Supervised BSc students working on independent research projects at Geneva Univ.

### Education

2011 – 2015: Master of Science with specialization in astrophysics from the Niels Bohr Institute, Denmark. Thesis: *Probing Kinematic and Thermal Properties of the Very Low Luminosity Object DC2742-04-IRS*.

2008 – 2011: Bachelor in Physics with specialization in Astronomy. Niels Bohr Institute, Denmark.

### Previous Occupation

2015 – 2016: Young Graduate Trainee at the European Space Agency, ESA/ESTEC, The Netherlands.

2015: Four months Research Internship at the Gemini Observatory, Hawaii.

2014 – 2015: Student support astronomer at the Nordic Optical Telescope, Spain.