

# Floor van Donkelaar

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## Research interests

Computational Astrophysics, Galaxy Formation, Galaxy Evolution

## Education

### University of Zurich

PhD in Computational Astrophysics

Supervisor: Prof. Dr. Lucio Mayer

Zurich, Switzerland

Sep 2021 – Present

### Lund University

MSc in Astrophysics

Supervisor: Prof. Dr. Oscar Agertz

Lund, Sweden

Aug 2019 – May 2021

GPA: 3.83/4

### University of Twente (ATLAS)

BSc in physics, minor in modern physics

Mentor: Prof. Dr. Jennifer L. Herek

Enschede, The Netherlands

Sep 2016 – Jul 2019

GPA: 3.85/4

## Research experience

### Lund University (MSc Thesis)

Supervisor: Prof. Dr. Oscar Agertz

Feb 2020 – Sep 2021

Research on the difference between the velocity dispersion of stars in the Milky Way in comparison to gas-rich high redshift galaxies with the use of N-body hydrodynamical simulations. Thesis available [here](#).

### Oxford University

Supervisor: Dr. Kearn Grisdale

Jun 2020 – Nov 2020

Analyzing gas and stellar properties of Giant Molecular Cloud in Large Magellanic Clouds with the use of hydrodynamical simulations.

### Leinbzin-Institut für Astrophysik Potsdam (Bsc Thesis)

Supervisor: Dr. Kasper Borello Schmidt

Mar 2019 – Jun 2019

Understanding the star formation rate, metallicity and thermal pressure in galaxies around  $z = 0.4$  with the use of spectral data.

### Leinbzin-Institut für Astrophysik Potsdam

Supervisor: Dr. Kasper Borello Schmidt

Jul 2017

Generating template spectra of MUSE-Wide emission lines sources.

## Teaching experience & public outreach

### Teaching assistant, University of Zurich

AST 201: Introduction to Astrobiology

Fall 2021

### Chief Public Relations, Green Team Twente

Jun 2017 – Sep 2018

Student team working on one of the most efficient hydrogen city cars in world. As head of the public relations and graphic designer of the team, it was my main responsibility to decide about the appearance of the team and organize the main events.

### Workshop developer, University of Twente

May 2017 – Jun 2018

We supported and developed workshops about mentoring and the writing of personal development plans in the science track of the honours programme.

#### Talks & tutorials

##### **The Properties and Scaling Relations of GMCs in the LMC**

Sep 2020

Talk at the extragalactic simulation group of Oxford University

#### Skills

##### **Programming**

Python | MATLAB | SQL | C | C++

##### **Languages**

Dutch (Native) | English (Fluent) | German (Elementary) | Swedish (Elementary)

##### **Other**

LaTeX | Windows OS | Linux OS | Microsoft Office Package | Adobe Package

#### Organizations

##### **UCT Alumni Association**

Sep 2021 – Present

Chair & PR representative

##### **Faculty Council EEMCS**

Sep 2017 – Aug 2018

Elected member

#### Other interests

Public Relations, Graphic Design & Rugby